

# Official Transcript of Proceedings

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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

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PUBLIC MEETING TO DISCUSS  
DRAFT ENVIRONMENTAL IMPACT STATEMENT  
FOR AMERICAN CENTRIFUGE PLANT

+ + + + +

THURSDAY

SEPTEMBER 29, 2005

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PIKETON, OHIO

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The public meeting was held in the  
auditorium of the Verne Riffe Career and Technical Center,  
at 7:00 p.m., Chip Cameron, Facilitator, presiding.

PRESENT:

JIM CLIFFORD, NRC

SCOTT FLANDERS, NRC

BRIAN SMITH, NRC

YAWAR FARAZ, NRC

## I-N-D-E-X

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## P-R-O-C-E-E-D-I-N-G-S

(6:59 p.m.)

FACILITATOR CAMERON: Good evening

everyone. My name is Chip Cameron, I'm the Special Counsel for Public Liaison at the Nuclear Regulatory Commission, the NRC, and I'd like to welcome you to the NRC's public meeting tonight. The subject that we're going to discuss is the NRC's environmental review. As part of it's evaluation of a application we received from USEC to construct and operate a uranium enrichment facility known as the American Centrifuge Plant, and the NRC staff will be telling you about other parts of our evaluation as we make a decision on whether to grant this license, and I would just thank all of you for being here.

I'm going to serve as your Facilitator tonight, and generally my role will be to try to assist all of you in having a productive meeting.

I just want to cover three points on meeting process before we get into the substance of tonight's discussion and I'd like to tell you a little bit about the format for the meeting, tell you about some simple ground rules and go over the agenda and introduce our speaker for tonight.

In terms of format, it's going to be a two-part meeting. For the first part is for us to give

1       you information about the NRC's evaluation process, and  
2       also the findings in the draft environmental impact  
3       statement that we prepared, and then to go on to you to  
4       answer the questions that you might have about either the  
5       process or the environmental impact statement. The second  
6       part of the meeting is going to give us an opportunity to  
7       listen to you, to your comments, to your recommendations,  
8       to your concerns about the draft departmental impact  
9       statement.

10                   I would emphasize the word "draft" to you,  
11       because it will not be finalized until we evaluate all the  
12       comments that we hear tonight, as well as written comments  
13       that we're going to be soliciting from you, and the staff  
14       will tell you more about that in a few minutes.

15                   In terms of ground rules, when we go on to  
16       you after the NRC presentation for any questions that you  
17       might have, if you have a question, just signal me and  
18       I'll come out to you with this cordless microphone.  
19       Please introduce yourself to us and any affiliation, if  
20       that's appropriate, and ask your question and we'll try to  
21       answer it for you.

22                   I would ask that only one person speak at  
23       a time for two reasons: one, most importantly, is so we  
24       can give her full attention to whomever has the floor at  
25       the moment and secondly, so that we can get a clean

1 transcript. Our stenographer tonight is Kris Kaun, over  
2 here, and that will be the public record of the meeting,  
3 and it will be available to anybody who wants to get a  
4 copy of the transcript.

5 I would -- during the question part of the  
6 meeting, I would ask you to just keep it to questions.  
7 There will be an opportunity for comment later. I know  
8 that often, when we're getting a question out there may be  
9 comment attached or wrapped around it. That's fine, but I  
10 would try to -- ask you to try to keep your comments to  
11 when we get to the comment part of then meeting, and try  
12 to be as brief as you can. It's hard to --- and in terms  
13 of these complex and sometimes emotional issues -- but try  
14 to be brief so that we can make sure that we give everyone  
15 an opportunity to participate tonight. In fact, when we  
16 go to the second part of the meeting and you come up to  
17 the podium to talk, I would ask you try to follow a  
18 five-minute guideline. That's not a hard and fast rule,  
19 but after about five minutes, I'm going to have to ask you  
20 to wrap up. If you have material that you'd like us to  
21 attach to the transcript, either graphics or if you have a  
22 prepared statement, we will be glad to attach that to the  
23 transcript and obviously, you can submit more detailed  
24 comments to amplify on what you say tonight during the  
25 written comment period. Usually five minutes is enough

1 time for people to summarize their most important points,  
2 and it accomplishes two important things: it alerts the  
3 NRC to issues that it should start looking at beginning  
4 tonight, talking to you after the meeting, perhaps, to get  
5 more information about those issues, and it also alerts  
6 those in the audience to concerns that you might have. So  
7 the public comment part of the meeting is extremely  
8 important.

9 In terms of our, agenda we have one  
10 speaker who is going to talk about the NRC process and  
11 then the findings in the draft environmental impact  
12 statement, and that's Mr. Matthew Blevins, who's right  
13 here. Matt is the project manager in the environmental  
14 review on this license application, and to give you little  
15 bit of his background, he's been with the NRC for  
16 approximately six years doing environmental reviews on  
17 various types of license applications, various types of  
18 projects that we get. He was a private consultant before  
19 he came to the NRC, working in low-level waste disposal  
20 and decommissioning and he is a master's degree in  
21 environmental engineering from Clemson University and a  
22 bachelor's in chemistry from West Virginia University --  
23 or, is that the University of West Virginia? He's not  
24 sure. Well, hopefully, he knows more about chemistry than  
25 that, but Matt will talk to you -- and if you just told

1 your questions until he's done, it won't be that long, and  
2 then, we'll come out to you for questions and then we'll  
3 proceed with the rest of the program. We have to be out,  
4 I think -- wrap up by about 9:45 tonight so that the  
5 custodians can close the school down by 10:00 or so, but  
6 the NRC staff will be here after the meeting two talk to  
7 anybody, and you'll be getting some contact information  
8 from them. Please feel free to call them or send an  
9 e-mail if you have concern or questions and thank you all  
10 for being here. This is an important decision that the  
11 NRC has to make, and we thank you for helping us in making  
12 that decision.

13 Before we go to Matt and his presentation,  
14 we do have one of our senior managers here tonight, Mr.  
15 Jim Clifford, who is chief of the special projects branch  
16 at the NRC. He's been with the NRC for about 25 years and  
17 has been involved in a wide range of activities, and he's  
18 just going to give you a little bit of perspective on all  
19 this. Jim?

20 MR. CLIFFORD: Thank you. This is the  
21 only time that Chip will ever give up his microphone,  
22 because I -- after I give it back him, he maintains it for  
23 the rest of the night. And, Chip and I have done a number  
24 of these meetings together.

25 My name is Jim Clifford. You know my



1 title, but the responsibilities I have are for the  
2 technical review for this application and for overall  
3 project management for the successful completion of the  
4 review, whether that ends up allowing a license or  
5 deciding not to allow a license.

6 My counterpart for the environmental side  
7 of the activities is Scott Flanders who's sitting in the  
8 middle of the table and he has responsibility for the  
9 environmental side of the review as well.

10 Just to let you know who's available at  
11 the table to answer any questions that may come up and  
12 will be listening to comments as well, Brian Smith is my  
13 supervisor -- the supervisor who works for me who's  
14 responsible for all the gas centrifuge reviews including  
15 this one and then Yawar Faraz is the technical and overall  
16 project manager for our review.

17 So, I just wanted to end my welcome to  
18 everybody who has come out tonight and shown interest. We  
19 are here to listen to your comments and take your comments  
20 back. I will tell you, we've done similar meetings. We  
21 did one for the Louisiana Energy Services. We got over  
22 4,400 comments by the end of the comment period, and we do  
23 go through and we do look at them, and we do address  
24 everyone of them. So make sure you speak out, we're here  
25 to listen to your comments tonight. Thank you.

1 FACILITATOR CAMERON: Okay, thank you very  
2 much Jim, and let's go to Matt for his presentation. This  
3 is Matt Blevins. Matt?

4 MR. BLEVINS: Okay, thanks Jim. Hello  
5 everyone, my name is Matt Blevins -- is this on? Can you  
6 hear me? Okay.

7 As Chip mentioned, we're here tonight to  
8 discuss the proposed American Centrifuge Plant and on  
9 behalf of myself and the other staff we want to welcome  
10 you to the meeting. Now just one clarification, I did  
11 graduate from West Virginia University, but I heard they  
12 changed their name, so that's the point of uncertainty.

13 PARTICIPANT: The microphone is not  
14 working.

15 MR. BLEVINS: I may need to stand closer.  
16 Is that better? I'll stand closer. Can you hear me now?

17 PARTICIPANT: I can hear you verbally from  
18 where you're standing but I don't know about anybody else  
19 back there.

20 MR. BLEVINS: Anybody in the back, can  
21 you hear the speakers, do you think?

22 PARTICIPANT: Yes.

23 FACILITATOR CAMERON: Okay, good. Thank  
24 you, sir.

25 MR. BLEVINS: Okay, thank you. As Chip

1 told you, our main goal tonight here is to listen to your  
2 comments. First, I'm going to briefly describe the NRC's  
3 license and review process, and then go into the findings,  
4 at least in a summary fashion, of the environmental  
5 review. When I've completed the short presentation, we're  
6 going to have a short question and answer session and then  
7 we're going to -- for the bulk of the time, we're going to  
8 sit here and listen to your comments.

9 Now, the important thing is, I want to  
10 point out that tonight is not the only time that you can  
11 submit comments, and I'll describe in more detail at the  
12 end of the presentation how you can submit other comments.

13 This was last-minute addition. The NRC is  
14 an independent regulatory agency. We report directly to  
15 Congress. We are not part of the Department of Energy,  
16 they are a separate agency and the report to the  
17 President. Now, the NRC has oversight responsibilities  
18 for wide variety of facilities, the most obvious of which  
19 are commercial power reactors, but we also regulate things  
20 such as medical uses, such as the radiation used to treat  
21 cancer.

22 The NRC's mission is to protect public  
23 health and safety as well as worker health and safety,  
24 along with the environment. The NRC does not promote  
25 nuclear projects. All nuclear projects must meet strict

1 safety and environmental requirements before the NRC will  
2 issue a license. Commercial nuclear facilities must have  
3 a license from the NRC before they can hold or use nuclear  
4 materials. In addition, the NRC conducts frequent and  
5 periodic inspections of our licensees. If we find out  
6 that the licensees are not following the requirements of  
7 the license, we can take enforcement action. The NRC  
8 would provide regulatory and inspection oversight for the  
9 proposed USEC facility.

10 Currently, we are reviewing USEC's license  
11 application to determine whether we can issue to license.  
12 There are three main portions of NRC's licensing review:  
13 We have the safety and security review, we have the  
14 environmental review, and then we have a formal hearing  
15 process.

16 Yawar's in charge of the safety and  
17 security review, and he's currently prepared -- he's  
18 currently preparing what is called a safety evaluation  
19 report. I'm in charge of the environmental review and the  
20 draft environmental impact statement, which we're  
21 discussing here this evening. Those two documents form  
22 part of the basis for whether or not we issue the license.

23 Additionally, as I mentioned there's a  
24 formal hearing process made up of a panel of Judges. They  
25 will ultimately make a recommendation to the NRC's

1 commissioners about whether to issue a license. Then,  
2 those NRC commissioners will then publicly vote on whether  
3 or not to issue the license, and that vote is based on all  
4 the information in those different reviews I just  
5 discussed.

6 Now, the next slide, I'm going to switch  
7 gears and we're going to talk just briefly about what USEC  
8 is proposing just make sure that everyone understands just  
9 we're talking about. USEC is proposing to build a uranium  
10 enrichment facility. It would be known as the American  
11 Centrifuge Plant, and in this plant, USEC intends to  
12 enrich uranium using a gas centrifuge process. Now, a gas  
13 centrifuge, shown here in the diagram, it's a machine  
14 used to enrich uranium. Basically, the machine uses  
15 high-speed rotors that's able to spin the different  
16 isotopes into different fractions. In other words the  
17 heavier uranium-238 isotopes are able to be separated from  
18 the lighter uranium-235 isotopes. The gas centrifuge  
19 process will be used to enrich natural uranium from its  
20 natural concentration of about .7 percent to somewhere  
21 between 3 and ten percent, and that's dependent on what  
22 USEC's customers need.

23 The proposed facility would be located  
24 within the existing Department of Energy reservation.  
25 USEC does propose to make use of some of the existing

1 buildings. For example, two large process buildings which  
2 are already present would be used to house the  
3 centrifuges. Other facilities would have to be built such  
4 as a tails withdrawal facility.

5 Now, I'm going to switch gears again and  
6 we're going to move onto the environmental review and what  
7 some of the results that were. First, I want to show you  
8 the various resource areas that we looked at in  
9 preparation of the draft EIS. We looked to see whether  
10 there would be impacts to each of these resource areas  
11 including such important concerns as public health and  
12 transportation. As you can see, it's a pretty extensive  
13 list. In terms of how we evaluated the impacts, first we  
14 looked at all phases of the project, both construction,  
15 operation, and decommissioning for each of those resource  
16 areas that we talked about on the previous slide. Now,  
17 once our experts determine what the impacts were, we went  
18 back and then we categorized those impacts as being either  
19 small, moderate, or large. And we'll -- on the very next  
20 slide, I'll define what those slides are, or what those  
21 terms are.

22 Now, the draft EIS also discusses  
23 mitigation measures. Mitigation measures are things that  
24 USEC can do to help decrease a potential negative  
25 environmental impact. For example, USEC has stated that

1       they will use dust suppression techniques for excavation  
2       under dry conditions, and this relates to an air-quality  
3       impact. All the impacts on all these resource areas are  
4       discussed in the draft environmental impact statement in  
5       chapter four, and that's the thick document that's back  
6       there on that back table if you didn't get a copy already.

7               Now as I just said, once the experts  
8       determine the impacts, we then categories them into small,  
9       moderate, or large. The definition of those categories  
10      are shown here. Small impacts are those that are either  
11      not detectable or they're so minor that they would neither  
12      destabilize nor noticeably alter any important attribute  
13      of a resource. Moderate impacts would be noticeable, but  
14      they wouldn't destabilize any important attribute of  
15      resource. The large impacts would clearly be noticeable,  
16      and they could eventually -- or, they could destabilize a  
17      resource. We did not find any large impacts for the  
18      proposed USEC facility.

19             Before we move on to the discussion of  
20      those areas that had moderate impacts, I want to briefly  
21      show you the areas that we estimated to receive small  
22      impacts. In particular, I want to focus on two areas that  
23      have received a lot of attention, starting with cultural  
24      resources. I wanted to provide a little more detail so  
25      you all know what we considered during the review.

1                   In analyzing the impacts to cultural  
2 resources, we followed the procedures as required under  
3 the National Historic Preservation Act for consultation  
4 and more specifically, we used the criteria for  
5 determining eligibility to the National Register of  
6 Historic Places.

7                   In this analysis we define what is called  
8 an area of potential effect. This includes the immediate  
9 area of construction, and this is what we call for the  
10 direct effects, and this could -- a direct effect could  
11 include a piece of heavy equipment uncovering a cultural  
12 resource. Now, we also extended this area of potential  
13 effects out of the DOE or the Department of Energy  
14 preservation boundary. And, this was for what we call  
15 indirect effects such as noise or visual intrusion. Now,  
16 in addition to those cultural resources which were inside  
17 the area of potential effects, we also looked to cultural  
18 resources which were immediately near the DOE reservation,  
19 and that was based on scoping comments we received when we  
20 were here last January, and based on information has been  
21 presented in the ongoing legal hearing. Based on this  
22 review, we determined that the impacts to cultural  
23 resources would be small.

24                   I also want to briefly discuss water  
25 resources. Our analysis found that the impacts on water



1 supply would be small because the withdrawals would only  
2 -- are only expected to increase by 10 percent over the  
3 existing usage. Moreover, the total withdrawal is  
4 estimated to be only 31 percent of the currently permitted  
5 levels. So, in other words, the supply wells were  
6 originally designed and permitted to pump more water than  
7 is currently anticipated for the USEC proposal.

8 Our analysis also found that the impacts  
9 to water quality will be small. This is based on the fact  
10 that the USEC will not routinely discharge process water.  
11 To explain in a little more detail, the Centrifuges are  
12 cooled a closed loop cooling system. The important part  
13 of that is that none of the water that comes into contact  
14 with the centrifuges is discharge into the environment.  
15 That primary cooling water system gets rid of its heat to  
16 a secondary cooling water system and it does that through  
17 heat exchangers. The important part of that is that the  
18 two waters don't come in physical contact, so there's no  
19 mixing. Additionally, any leakage or spills would be  
20 collected in a separate system. If this collected water  
21 meets NRC regulations then it can be discharged to the  
22 site's sanitary sewer treatment system. If it doesn't  
23 meet the NRC regulations, it would have to be  
24 containerized and shipped offsite.

25 During our analysis, we found that five

resources areas may experience small to moderate impacts. They may experience moderate impacts during some portion of the facility's lifetime -- that's probably a better way to say it -- but, not necessarily for the entire facility lifetime. For example, the impacts during the construction phase might be moderate but then once they go to the operations phase, those impacts may become small. The five areas that have moderate impacts are air-quality, socioeconomics, transportation, public and occupational health, and waste management, And I'm going to discuss each of these areas in detail in the next set of slides.

For air-quality, we analyze various pollutants. The moderate impact was found to exist for particulate matter. More technically, the particulate matter is known as PM2.5. The PM2.5, it refers to the average size of the particulate matter. In this case, it's 2.5 microns in average on the diameter. In other words, it's very small particulate matter. The level of PM2.5 would slightly exceed the existing air-quality regulations for a distance of about 3,000 feet beyond the site boundary. This is primarily related to the exhaust from the construction equipment. It should also be noted that this area of Ohio has high background of PM2.5. The numeric details can be found in the draft EIS, but a good

1 way to summarize it is that the proposed USEC facility  
2 would increase those levels by about 16 percent. Again,  
3 this is related just to the construction phase from about  
4 2007 to about 2011.

5 Now, we also looked at emissions during  
6 the facility -- during the operation of the facility,  
7 including the emissions of hydrogen fluoride, or HF, and  
8 -- as well as emissions of uranium. The release of HF and  
9 uranium would be very small -- very -- I guess you'd say  
10 very far below the background -- I'm sorry, below the  
11 regulatory thresholds. The actual numbers, for example,  
12 the hydrogen fluoride is about .003 micrograms per cubic  
13 meter, and to put that in perspective, the regulatory  
14 threshold is 2500, so you can see that there's a large  
15 difference between those two numbers. And that's similar  
16 for the uranium numbers as well. The numeric details,  
17 again, are found in chapter four of the draft EIS.

18 Socioeconomics includes a wide range of  
19 areas. We analyze employment, population, housing, public  
20 services, and financing -- finances. We found that the  
21 employment impacts would be moderate because the proposed  
22 facility would either create or sustain jobs in the local  
23 area. We also found that impacts to the population  
24 increases would be small and that's primarily because of  
25 the small number of people expected to move to the area,

1 and I have some of the job numbers here listed on the  
2 screen.

3 For transportation, we looked at both  
4 materials and equipment coming to the site as well as  
5 workers commuting back and forth. Now, during both the  
6 construction in the operations phases combined, we  
7 estimated -- the estimate was less than five combined  
8 fatalities from either the shipment of the materials and  
9 equipment or from workers daily commutes, and this is just  
10 from normal routine daily traffic accidents, not including  
11 -- you know, in other words, if another vehicle were to  
12 run of the road, in other words a non-radiological  
13 accident.

14 Then, we looked at the radiological  
15 impacts from the transportation or the routine shipment of  
16 these radioactive materials, and when we say "routine  
17 shipment" we mean, if there weren't any accidents, and  
18 then, we also looked at what would happen if there were  
19 different accident scenarios involved with that  
20 transportation. Again combining those two estimates over  
21 the 30-year period, we expect less than one additional  
22 cancer death over that time frame. We consider the  
23 impacts of these areas to be small.

24 Now this analysis assumed that all the  
25 materials would be shipped by truck except for the

1 depleted uranium tails, which is a type of radioactive  
2 waste, which we'll talk about on the next slide. For that  
3 analysis, we assume that the depleted uranium tails would  
4 be shipped by rail. For that shipment scenario, we would  
5 expect far less than one additional cancer death over the  
6 shipping time frame. And again, we expect this to be a  
7 small impact.

8 Now, during construction, we expect minor  
9 congestion primarily on US Route 23. Route 32 will see  
10 increase traffic but it won't be as noticeable as on 23.  
11 Because the speed of these routes will be slightly reduced  
12 and because of the increased number of vehicles, we've  
13 concluded this would be a moderate impact.

14 Now, in addition to the small radiological  
15 impacts which we just talked about, it's also possible  
16 that an accident could have nonradiological impacts. For  
17 example, the formation of a hydrogen fluoride gas could be  
18 created. The exact impacts vary based on several factors,  
19 for example, whether it happens in a rural location or  
20 whether it happens in a city. It also depends on the  
21 meteorological conditions. It depends on which way the  
22 winds are blowing and whether it's a stable atmosphere.  
23 And, it also depends on what the material is, whether it's  
24 UF<sub>6</sub>, which is the uranium hexafluoride, or whether it's  
25 U-308. The results are summarized in detail in chapter --

1 in table 416, and there were a lot of numbers so I think  
2 you have to go look at that to get a feel for what the  
3 ranges are. Now, because of the low probability of such a  
4 severe accident occurring, we found that the  
5 nonradiological impacts from accidents would be moderate.

6 Now, as you know, USEC would be handling  
7 radioactive materials. So, we do a careful assessment of  
8 any possible health effects that may occur. We look at  
9 both workers at the facility as well as the public living  
10 near the facility. We found that for construction, normal  
11 operations, and decommissioning, the radiological health  
12 impacts to both workers and the public would be small.  
13 During operations, it was estimated that the nearest  
14 member of the public would receive between .2 and 1  
15 millirem per year and this is dependant upon the location  
16 around the facility. The south and southwest direction  
17 receives its highest exposure from the airborne emission,  
18 and that relates to about the .2 millirem per year number.  
19 The direct radiation contributes the highest dose to a  
20 theoretical member of the public at the north boundary,  
21 and we say and we say theoretical because nobody currently  
22 lives there. But, that number -- that -- the highest dose  
23 in that area was about 1 millirem per year. Both of these  
24 doses are well below the NRC's regulatory requirements of  
25 25 millirem per year.

1                   We also looked at accidents and we found  
2                   high or intermediate consequences for several accidents  
3                   that were analyzed. Now, however, there are safety  
4                   equipment that's at the facility that makes such as severe  
5                   accident highly unlikely. Based again on the low  
6                   probability that such a severe accident would occur, we  
7                   determined those impacts would be moderate as well.

8                   The last area I'm going to discuss is  
9                   waste management. The facility would generate both  
10                  non-radiological waste and radiological waste. The  
11                  non-radiological waste could include things such as scrap  
12                  metal from construction and the radiological waste could  
13                  include things such as dirty rags or laundry, but most of  
14                  the radioactive waste is depleted uranium tails. The  
15                  uranium tails could be stored on site until their eventual  
16                  conversion and disposal.

17                  Now, we found that the impacts from the  
18                  non-radiological waste and most of the radiological waste  
19                  to be small. That is, there's adequate capacity at an  
20                  appropriate licensed disposal facilities. The impact --  
21                  now specifically to the depleted uranium tails, the  
22                  impacts from the storage of the depleted uranium tails was  
23                  also estimated to be small to moderate. It was estimated  
24                  to have small impacts on the nation's disposal capacity,  
25                  small impacts from transportation of the depleted uranium

1       once it's converted into a more stable form, and small  
2       health impacts once it's eventually disposed of. The  
3       moderate impact is the necessary extension of DOE's  
4       depleted uranium conversion facility that's also going to  
5       be located on the DOE reservation.

6               That conversion facility, the one that's  
7       currently under construction, would have to operate for a  
8       much longer period of time than if it were just converting  
9       the existing inventory. DOE has considered this operating  
10      extension in their previous environmental reviews.

11             Now that concludes my technical overview  
12      of the draft EIS findings, and now, I'm going to switch  
13      gears and tell you how to submit comments.

14             First off, we're going to be accepting  
15      oral and written comments this evening. You may not have  
16      anything to say this evening, and that's okay, but you may  
17      hear something or something may come to you afterwards,  
18      and that's why the comment period ends October 24. It's  
19      important that you understand that we consider all the  
20      comments when we're preparing the final EIS. All those  
21      comments are going to be included in an appendix to that  
22      final EIS. Along with that -- along with your comments,  
23      there's going to be a NRC response, and that way you  
24      understand how we addressed your comments.

25             The important thing is when you're



1 something comments outside of the meeting, I want you to  
2 note the docket number on your comments. That way, it  
3 gets routed to the right people, it doesn't get lost in  
4 some of the different paper mailboxes that we have at the  
5 NRC. You can send your comments via regular post office  
6 mail or you can send them to the e-mail address listed.  
7 Also, we have some blank comment forms back here on one of  
8 the tables. Feel free to write your comments out on those  
9 blank forms as well, if you'd like, and you can provide  
10 those on your way out the door this evening.

11 Now in the next two slides, we're going to  
12 talk about some of the different web addresses where you  
13 can get more technical information. On the first web  
14 address, it's where you can see an electronic version of  
15 the draft environmental impact statement, and I think this  
16 is important because it has better resolution of the  
17 pictures. The second web site address takes you to the  
18 NRC's web site and it talks -- it has general information  
19 about the USEC licensing proceeding and generally has some  
20 of the more important documents. Now, this web site  
21 address may be the most important because it takes you  
22 directly to the NRC's electronic reading room, and on that  
23 web site, you can get all the publicly available documents  
24 about the USEC licensing action. Examples of documents  
25 that you can find this web site include records of phone

1 conversations, e-mails, meeting summaries and other public  
2 comments, and of course, all of USEC's submittals. Now,  
3 if you're having trouble finding a document in his  
4 electronic reading room, I've given you public document  
5 room, they have staff that said there and their job is to  
6 help you find it and provide you electronic copies, so  
7 just e-mail them or give them a call and they should be  
8 able to help you find something.

9 Now in terms of the NRC staff, if you have  
10 an overall licensing question or a safety and security  
11 review question, probably the best person to contact is  
12 Yawar, and I've given his contact information here. If  
13 you have any questions on the environmental review, you  
14 can contact myself, and we have -- again, these are on  
15 copies of the slides if you got one of those when you came  
16 in.

17 So that wraps up my presentation, and --  
18 do you want me to sit down, or --FACILITATOR CAMERON: Why  
19 don't you just stay up there because I think we'll have  
20 some questions now. The NRC points of contact, can we  
21 leave that up there because I didn't see a slide.

22 MR. BLEVINS: It should be in the last  
23 page there on the back.

24 FACILITATOR CAMERON: All right.

25 MR. BLEVINS: Maybe you have a bad copy.

1 FACILITATOR CAMERON: Okay, but we'll --

2 MR. BLEVINS: We can --

3 FACILITATOR CAMERON: -- leave this up so  
4 that you can have time to look at it, and Matt, you can --  
5 people can submit comments by e-mail, --

6 MR. BLEVINS: Yes.

7 FACILITATOR CAMERON: -- also, right?

8 MR. BLEVINS: Yes.

9 FACILITATOR CAMERON: Okay.

10 MR. BLEVINS: On the previous slide, there  
11 was an e-mail address.

12 FACILITATOR CAMERON: And, note that there  
13 is an e-mail address on their for --

14 MR. BLEVINS: Or, you can e-mail it to me  
15 and I'll forward it to the e-mail address.

16 FACILITATOR CAMERON: Okay, great. Now,  
17 are there questions? Yes, sir, please introduce yourself  
18 to us.

19 MR. KITE: Fred Kite from WEB News, in  
20 Athens. If, in fact, you have your EIS issued -- the  
21 final EIS issued by April 2006, when would the final,  
22 final approval of the NRC come?

23 MR. BLEVINS: I'm going to defer -- I  
24 think it's in early '07, but Yawar probably has the best  
25 time frame for that.

1 FACILITATOR CAMERON: And, it would be the  
2 final decision. It may not necessarily be an approval.

3 MR. BLEVINS: Right.

4 FACILITATOR CAMERON: But, it would be the  
5 final decision. Yawar?

6 MR. FARAZ: The NRC Commissioner has  
7 issued an order and in the order, they have set a goal for  
8 the entire review. It was a 30 month, review from the  
9 submittal of the application to the final decision. Based  
10 on the 30 month schedule, it's February of '07.

11 FACILITATOR CAMERON: Thank you very much,  
12 Yawar. And, let's go right out here. Yes?

13 MS. BAKER: I had two questions if you  
14 don't mind. My name is Deborah Baker. I have two  
15 questions, if that's alright. I wonder if you could  
16 compare your -- you're talking about the millirems that  
17 were the very small doses that were going to affect the  
18 locals around here. How does that compare to the doses  
19 that are estimated -- the real doses -- of people around  
20 nuclear power plants?

21 MR. BLEVINS: I'm going to give that to --  
22 Scott, you want that one?

23 MR. FLANDERS: The doses that Matt spoke  
24 of, I believe, he said it was approximately about 1  
25 millirem at the -- to a theoretical person at the

1 boundary, and around nuclear power plants, the doses vary  
2 based on the affluence, but they're typically very low,  
3 similar in nature to around nuclear power plants.

4 There's -- the regulatory limit for this  
5 type of facility is about 25 millirem, which represents a  
6 relatively small fraction of what the general public would  
7 receive from just day-to-day normal activities. It's  
8 about 300 millirem per year that's received to all of us  
9 just based on -- from natural sources, and there's about  
10 60 millirem and that's assumed from activities, man-made  
11 type activities such as x-rays, flying in airplanes, et  
12 cetera, so the doses represent a very small fraction of  
13 the regulatory limit and an even smaller fraction of what  
14 a general member of the public would receive on a yearly  
15 basis.

16 FACILITATOR CAMERON: Okay, Deborah, your  
17 other --

18 MS. BAKER: Yeah, I just wanted to comment  
19 on that, that, as you know, cancer rates have gone up  
20 since nuclear testing has been going on in the atmosphere.  
21 So, the radioactivity in the air does affect cancer rates,  
22 and there is more radioactivity around nuclear plants and  
23 in fact, the cancer rates around nuclear plants -- power  
24 plants are higher than the cancer rates away from the  
25 nuclear power plants. If the rates are similar, then I

1 expect to see the same thing here, and of course some of  
2 the workers here have been contact -- contracting cancer.  
3 So, whatever the background rates are it sounds like that  
4 the industry is bad for people's health.

5 MR. FLANDERS: Well, just to add a few  
6 points, the background rates, I spoke of, the 360 millirem  
7 are not specific to exposure around a nuclear power plant.  
8 That's a general average of exposure.

9 PARTICIPANT: Can you speak into the mic?

10 MR. FLANDERS: Can you hear me? The  
11 background rates I was speaking of are general background  
12 rates, not necessarily background rates associated with  
13 nuclear power plants, or 360 millirem. That's just a  
14 general member of the public based on information  
15 collected by various radiological groups such as NCRP and  
16 international groups as well.

17 FACILITATOR CAMERON: And, Deborah, do you  
18 have another question?

19 MS. BAKER: I was wondering, who is the  
20 panel of Judges who will be making the recommendation?

21 MR. FLANDERS: There's a panel, there's a  
22 -- what's called an atomic safety and licensing board.  
23 It's made up of three Judges, and I'm not necessarily sure  
24 who the specific names of the Judges are, but these are  
25 what you would call -- I'm lost in my words, Chip. You

1 know better than I do -- Administrative Law Judges. It's  
2 made up of the three panel members. Usually one is a  
3 person with a technical background. Others are  
4 individuals with a legal background as well. So that's  
5 what makes up the panel.

6 FACILITATOR CAMERON: And if you need the  
7 exact names, we can get those to you off-line, Deborah.

8 And, Deborah made one statement and I  
9 believe that was that the radioactive emissions around  
10 nuclear power plants are higher than in areas away from  
11 cancer rates. I -- and I just would ask the NRC staff to  
12 think about whether there has been than any studies that  
13 demonstrate that or provide other information. We don't  
14 need to do it now but I just want to make sure that we get  
15 all the information on the record.

16 Thank you, Deborah. Thank you, Scott.  
17 Other questions? Let's go to Vina. We apologize for the  
18 feedback. Vina?

19 MS. COLLEY: Yes, I'd like to ask the NRC,  
20 would you be willing to sign a legal paper stating that  
21 this facility will cause no harm to the workers or the  
22 community, and if it did, who can they sue?

23 FACILITATOR CAMERON: And, this is Scott  
24 Flanders again.

25 MR. FLANDERS: The NRC has a set of

1 regulatory standards, which Matt spoke of briefly, that we  
2 do as a part of our safety evaluation report and those  
3 regulations are based on analysis by the NRC that we put  
4 those regulations in place, that we believe that if those  
5 regulations are satisfied, they're protective of public  
6 health and safety. So, in order for us to issue a  
7 license, we have to first ensure that the facility will be  
8 built in accordance with those regulations and then later  
9 operated in accordance with those regulations, and if  
10 they're not operated within accordance with those  
11 regulations, we would take enforcement action.

12 So, through that process is the NRC's way  
13 of ensuring and having reasonable assurance that they'll  
14 be protective of public health and safety. So, that's our  
15 regulatory process.

16 Our regulatory process does not include  
17 the signing of any specific documents, but our regulatory  
18 process includes this review and it's later reviewed by  
19 our Commission as well.

20 FACILITATOR CAMERON: Okay, thank you very  
21 much Scott, we didn't answer the --

22 MR. FLANDERS: Did I miss a --

23 FACILITATOR CAMERON: -- question, it's --  
24 the way Vina phrased it is, if there's damage, who could  
25 be sued. In other words, liability for any --



1 MR. FLANDERS: Well, if --

2 FACILITATOR CAMERON: -- type of damage.

3 I don't know if we can have the knowledge to address that  
4 right now, if you want to say anything about it in  
5 general, then --

6 MR. FLANDERS: I would say, generally,  
7 that if it was found that there was an accident or a  
8 violation of NRC's regulations, an enforcement action  
9 would be taken and the licensee would be held accountable  
10 for any violations of the regulations.

11 FACILITATOR CAMERON: And, in terms of any  
12 sorts of harm to people it would be handled in the typical  
13 way that any damage, I think, would be handled from any  
14 type of industrial facility, through a tort action in the  
15 courts. Vina, do you have a -- excuse me. Vina, do you  
16 have a follow up?

17 MS. COLLEY: Yeah, I'm just wondering if  
18 sovereign immunity is going to play into this liability to  
19 compensate these workers of the community, because right  
20 now, we have a compensation bill that's not working that's  
21 been in place for six years and not the first worker who  
22 had toxic chemical exposure -- if they didn't have cancer  
23 they can get paid, and they're still not even getting paid  
24 if they got cancer. So, I'm still wanting to know who is  
25 going to be liable if you guys give this company another

1 license to kill more people. I want to know who's going  
2 to be liable.

3 FACILITATOR CAMERON: If any of the NRC  
4 staff, or others, if we can try to piece together the  
5 framework of an answer that we can give to Vina after the  
6 meeting, let's try to do that. We do have some people  
7 here from our Office of General Counsel, so we'll talk to  
8 them about it. Yes, ma'am?

9 MS. SWAIN: Yes, this is a follow up on  
10 the comment that you made about violations -- NRC  
11 violations. I understand that USEC does have quite a few,  
12 in fact, a disgraceful record. They have, like, 16  
13 violations of NRC regulations, and has that been taken  
14 into account? Has that been factored into this impact  
15 statement? And I have another question after that.

16 FACILITATOR CAMERON: Scott, or Yawar?

17 MR. FLANDERS: I'll start and I'll look  
18 for Yawar to see if he can answer. I assume you're  
19 speaking of violations as it relates to the operation of  
20 the gaseous diffusion facility?

21 MS. SWAIN: Right.

22 MR. FLANDERS: That -- the license for the  
23 gaseous diffusion facility is a separate activity. This  
24 is a review for a proposed license that they are proposing  
25 and we're evaluating right now the technical basis of how

1       they would construct and operate the facility. So we're  
2       about -- were doing a technical evaluation at this point  
3       in time. The aspect of looking at violations are done as  
4       a part of our inspection activities, which this plant  
5       will also have inspection activities.

6               FACILITATOR CAMERON: And, but, I don't  
7       think that in terms of whether violations are addressed in  
8       the environmental impact statement itself, as opposed to  
9       other parts of the licensing process, --

10              MR. FLANDERS: The operational -- the way  
11       in which they will operate the facility and the way in  
12       which we will be -- we will inspect the facility is  
13       addressed separate from the environmental impact  
14       statement.

15              FACILITATOR CAMERON: Okay, so you won't  
16       find any thing on that in the environmental impact  
17       statement, and as Matt and Jim Clifford talked about,  
18       there's other aspects to this review and this decision.  
19       Yawar, do you want to add anything on this? Yawar Faraz.

20              MR. FARAZ: As Scott mentioned, it's a  
21       certificate that we issued for the gaseous diffusion plant  
22       where the violations have occurred. We are reviewing the  
23       application for its merits -- this, for the centrifuge  
24       facility, and it would -- that's what we would base our  
25       review on, on the merits of the application. We look at

1 not, you know other -- if you find the application  
2 acceptable, we would conduct preoperation inspections to  
3 make sure that they construct the facility as described in  
4 the application, and then we will continue our oversight  
5 by conducting routine inspections and also unannounced  
6 inspections once they begin operations. So, that's how we  
7 would make sure that the facility is maintained -- safety  
8 is maintained.

9 FACILITATOR CAMERON: Okay, and if you  
10 want to -- yeah, I know you have another question. I  
11 think that for any licensee of the NRC, the enforcement  
12 record, the violations are all part of the public record  
13 and you can judge how, you know, serious you think they  
14 are and see what the fine wants. And, your --

15 MS. SWAIN: The second question is, has  
16 the NRC ever not licensed an applicant, other than LES,  
17 which was denied in a couple of places, but is still under  
18 application?

19 FACILITATOR CAMERON: And, I'll translate  
20 that into any type of facility, okay? Not just a facility  
21 like this.

22 MS. SWAIN: Not just a centrifuge.

23 FACILITATOR CAMERON: Scott?MR. FLANDERS:  
24 Throughout the NRC's regulatory history, I mean, there's  
25 been times where an application has come in and the NRC

1 has not approved that application. We approve the  
2 application only after it's been demonstrated that they  
3 can satisfy our regulatory requirements. So if it's  
4 demonstrated that the regulatory requirements can be  
5 satisfied after we've done our technical and environmental  
6 review, then we would issue a license, but until that  
7 point in time, so there's been cases where we did not find  
8 that the application demonstrated and satisfied all the  
9 safety requirements, and in some cases there's a need,  
10 also, to condition the license as well, which what -- is  
11 another way of adding additional requirements -- or,  
12 additional conditions to ensure that they satisfy our  
13 regulatory requirements.

14 FACILITATOR CAMERON: And, Scott, along  
15 those lines, there have been some cases, have there not,  
16 where we have requested that a licensed applicant do  
17 something to improve safety or to meet the regulations and  
18 they might have withdrawn their application?

19 All right, yes, let's go -- we'll go right  
20 here and then go to you, and please introduce yourself,  
21 sir.

22 MR. WEINER: Alan Wiener. I have two  
23 questions too, it's going around. One question is the  
24 nuclear fuel cycle in the back has, like, a one-way  
25 direction and there's no circle in it, and I wonder if

1       USEC or NRC determines the safety of the spent fuel. And  
2       the second question also -- I'll wait on the second one.

3               FACILITATOR CAMERON: Do you understand  
4       Allen's question in terms of what the NRC role is in  
5       regulating either the storage or disposal of spent nuclear  
6       fuel? Is that basically it?

7               MR. WEINER: And, the ultimate disposal.

8               FACILITATOR CAMERON: Ultimate disposal,  
9       okay. Scott?

10              MR. FLANDERS: The NRC has rules specific  
11       to the spent fuel, both storage and ultimate disposal. We  
12       have specific regulations in place that are in  
13       requirements for storage of spent nuclear fuel, as well as  
14       requirements in place that provide guidelines for ultimate  
15       disposal of spent nuclear fuel, as well.

16              FACILITATOR CAMERON: And, that last part,  
17       Scott, is referring to the fact that the Department of  
18       Energy has to get a license from the NRC. They have to  
19       meet all of our regulations to be able to construct and  
20       operate a repository for the disposal of waste at Yucca  
21       Mountain. Second question, Alan?

22              MR. WEINER: I wondered why there's an  
23       absence of any mention of higher percentages of  
24       concentration, meaning for other uses like bomb making.

25              MR. FLANDERS: The NRC does not regulate

1 the Defense uses of nuclear materials. That's separate  
2 from our responsibility.

3 MR. WEINER: Is that out of the question  
4 for this plant?

5 MR. FLANDERS: Under the NRC -- under the  
6 license that the NRC would grant, yes, the -- it would be  
7 limited in to -- as to how much they can enrich the fuel,  
8 so they -- or the material, I should say.

9 FACILITATOR CAMERON: Okay, does anybody  
10 from the NRC want to add anything on that last -- Yawar?  
11 Can you go up to the podium, please? Thank you.

12 MR. FARAZ: Just as Scott mentioned USEC  
13 would be authorized up to 10 percent for enrichment, and  
14 we have a separate plan that would require USEC to submit  
15 that plan to us. It's called the Fundamental Nuclear  
16 Material Control Plan, and that's a way to -- for USEC to  
17 demonstrate to us that they would not go above the 10  
18 percent, and then the NRC would be -- would review that  
19 plant, obviously, and would be part of the application  
20 review and then the NRC would again, you know, conduct  
21 inspections to make sure that they are abiding by this  
22 FNMC Plan to make sure that there's no unauthorized  
23 enrichments, or any kind of divergent off of material.

24 In addition to the NRC, we expect the IEA,  
25 which is the international -- the UN body to -- if it

1 selects the American Centrifuge Plant for -- to conduct  
2 inspections for the IE to come in -- and also on its own,  
3 independently make sure that there are no unauthorized  
4 enrichments being conducted at this facility or material  
5 is not be diverted.

6 FACILITATOR CAMERON: Okay thank you.  
7 Let's go right here, excuse me, Dr. Manuta.

8 MS. PUCKSTEIN: I'm Jean Puckstein and my  
9 question is about the scoping process which some of us  
10 make contributions to. The document, as it appears as --  
11 on the internet, the ADAMS Reading Room, did a summary of  
12 the scoping remarks, and it included after the summary  
13 remarks, pages or copies -- or some of the letters that  
14 have been sent in about the scoping process and in my  
15 computer and others I've talked with, we were not able to  
16 unscramble who those letters were from. In my experience  
17 reading other environmental impact statements and scoping  
18 reports, you usually include those letters in their  
19 entirety instead of a summary. Will that be done after  
20 this process?

21 MR. FLANDERS: For the scoping summary  
22 report, the NRC normally summarizes the comments, and  
23 that's so we can quickly and efficiently get the comments  
24 and the issues that out of the public so to make sure we  
25 understood what you said at the meeting. We don't --



1       there shouldn't have been any letters attached that  
2       scoping summary report that we issued in April, 2005.

3               Now for this -- for the draft EIS, when we  
4       go to finalize it, what we'll do is add an appendix,  
5       and then, what you're talking about is everyone of the  
6       public comment letters will be in the appendix, and then  
7       we'll sort of cross-reference that to where the --  
8       because that's a large document, we'll cross-reference  
9       that to where the NRC response will be nearby or will be  
10      cross-referenced so you can find it easily.

11              FACILITATOR CAMERON:  If Jean wanted to  
12      see the actual letters that were submitted during scoping,  
13      those are part of the public record, and she can get to  
14      those, right?

15              MR. FLANDERS:  Certainly.  One of the  
16      things you can do is -- probably the most efficient way is  
17      if you contact the public document room at the number I  
18      listed, the 1-800 number, if you tell them what you're  
19      looking for, they're pretty efficient, and they'll be able  
20      to locate those numbers and they can tell you how to get  
21      those electronically.  They're pretty small documents, the  
22      letters themselves, because they're probably one to two  
23      pages.  We might have had some that were a little larger,  
24      but those would all show up on the record in a certain  
25      time frame.

1 FACILITATOR CAMERON: And if Jean is  
2 having trouble with this, she can contact you and see if  
3 you can give her some assistance from --

4 MR. FLANDERS: Yeah, I can too. The most  
5 efficient, though, is --

6 FACILITATOR CAMERON: Is to go --

7 MR. FLANDERS: -- public document.  
8 They're the professional people that do that.

9 FACILITATOR CAMERON: Okay. All right,  
10 did you have a follow-up?

11 MS. PUCKSTEIN: I wanted to ask Mr.  
12 Blevins, if I send a copy -- it's only one page of this  
13 scrambled language, would you be able to explain it to me?

14 MR. FLANDERS: I might. The only thing  
15 that we put on ADAMS are portable document files, PDFs.  
16 It's in an Acrobat reader file. It sounds like maybe a  
17 different file format was opened on a different program,  
18 maybe, in your computer, because I've seen some sort-of  
19 scrambled documents too. It's important just to use the  
20 right application.

21 MS. PUCKSTEIN: Okay.

22 FACILITATOR CAMERON: Well, you can give  
23 it a try.

24 MR. FLANDERS: Yeah, you can give it a try  
25 --

1 FACILITATOR CAMERON: Send it to him.

2 MR. FLANDERS: I'll try to find out what  
3 document it really is and then send you back the original  
4 version of that.

5 FACILITATOR CAMERON: All right, Dr.  
6 Manuta, you have a question?

7 DR. MANUTA: Well, it's actually to  
8 clarify what Mrs. Lever (phonetic spelling) just asked a  
9 few minutes ago. The gaseous diffusion process actually  
10 did at one time make what you defined as bomb-grade  
11 material, which is up to 97 percent. That process stopped  
12 in 1964 and the building was subsequently shut down in the  
13 early 1990s, around 1992. But, keep in mind that that's  
14 the gaseous diffusion plant, so that's an entirely  
15 different animal.

16 Now related in with the centrifuge is the  
17 fact that the licensing process here has a lot more  
18 knowledge base going into it because the NRC is involved,  
19 so there's kind of a talk the talk and walk the talk  
20 attitude -- walk the walk -- when the gaseous diffusion  
21 plant came about in the 1950s, the NRC didn't exist.  
22 Okay, very very important.

23 And so a lot -- and then getting back to  
24 what Vina was mentioning, I've dealt with a lot of this  
25 over the years. There are long periods of time where

1 people were not given all the information about the work  
2 that they were getting involved in. That era has come and  
3 gone, fortunately, and that's really critical to  
4 understand that as we move into the new era with the  
5 centrifuge, when the document is prepared with the  
6 assistance of USEC personnel to meet the criteria that NRC  
7 has and then for the judges to then pass their judgment at  
8 some point on the road, what you're going to find is that  
9 the legal mechanisms are in place so that if things happen  
10 which are unplanned and the object is that you've  
11 accounted for 99 plus percent of what the average employee  
12 is likely to encounter, there should be many fewer  
13 problems with the centrifuge than there were with the  
14 gaseous diffusion.

15 FACILITATOR CAMERON: Thanks, Dr. Manuta.  
16 Other questions out here? Anybody before we -- okay.  
17 Yes, ma'am?

18 MS. RAINEY: Carol Rainey. What happened  
19 with the centrifuge plant back in the seventies and was  
20 there environmental impact on what happened then? That's  
21 one of my questions.

22 MR. FLANDERS: I can briefly answer. The  
23 NRC wasn't involved in that original -- what was  
24 originally called the GSEC facility, that was a DOE  
25 project. My understanding is it was run for a very brief

1 period of time and currently, my understanding is some of  
2 the centrifuges did have radioactive material in them, but  
3 some did not. They're currently dismantling or  
4 refurbishing some of those centrifuges from the facility.

5 MS. RAINEY: Why didn't it work?

6 MR. FLANDERS: That I don't know. Yawar,  
7 do you have -- I think it might have been more of a budget  
8 issue but I'll let Yawar --

9 FACILITATOR CAMERON: And after that, can  
10 we -- let's move on and if there is more information, if  
11 anybody has it -- let's provide it off-line. Yawar?

12 MR. FARAZ: Well, from what I understand  
13 it was a political decision. The plant was operated  
14 successfully for short period of time, but then there was  
15 this AVLIS method that was on the horizon and the decision  
16 was made that, you know, AVLIS would be pursued as opposed  
17 to a gas centrifuge.

18 FACILITATOR CAMERON: Okay, and if --  
19 whatever we can provide to her on that after the meeting,  
20 I think we'd best do it.

21 MR. FLANDERS: Question from up here that  
22 was new.

23 FACILITATOR CAMERON: Okay, and let's --  
24 we'll take this question and then let's go to all of you  
25 to hear from you with comment. Yes, ma'am?

1 MS. WAHLEY: Lois Wahley. I have two sort  
2 of general questions which come from the background, which  
3 is provided in the report.

4 First is about how much this fuel, which  
5 is going to provide -- how much will that supply -- that  
6 is to say, will it supply five power plants, 10, 100?  
7 There seems to be only this one facility for this gaseous  
8 diffusion. There must be other methods which are being  
9 used, or something.

10 MR. FLANDERS: There are several methods  
11 and I think I can talk more generally, and to get into  
12 very detailed, we will have to go to Yawar or Brian, but  
13 the whole fuel -- the -- think of the 100 nuclear power  
14 reactors we have, the current demand is about 11 million  
15 SWU, which is called a separate work unit. This proposed  
16 facility would initially -- the initial license  
17 application is for 3.5 million SWU, or separate work  
18 units. There's also some capacity, or SWU capacity from  
19 the Russian down blending of high enriched uranium and I'm  
20 pretty sure you can find some of that information of USEC  
21 internet web site.

22 And then, there's also this proposal --  
23 well, and before we get to that, there's the Paducah  
24 gaseous diffusion plant, which -- is that about 5 million  
25 SWU right now?

1 MR. FARAZ: It varies.

2 MR. FLANDERS: Okay, so it varies, but I  
3 think that's the number, I think, we used in the draft  
4 EIS, and then there's the proposed facility in New Mexico,  
5 which its licensed application was for 3 million SWU. So  
6 you can see, total, they're getting close to the number  
7 for the 11 million SWU needed for the fuel cycle. Right  
8 now, a lot of the SWU comes from overseas and one of the  
9 purpose it needs was the -- that Congress thought we  
10 perhaps needed a more secure domestic supply of this  
11 energy, this SWU capacity.

12 MS. WAHLEY: So, this would be about a  
13 third. Is that --

14 MR. FLANDERS: Roughly, yes.

15 MS. WAHLEY: The other question has to do  
16 with the -- what is it, megatons to megawatts, and the use  
17 of Russian nuclear warheads as background or source  
18 material for fuel source for the gaseous diffusion, is  
19 that correct? And a, you know, how many warheads are  
20 going to use up? I certainly hope -- and is there also,  
21 what about the US warheads? I guess that this plant would  
22 not be using dismantled US warheads, is that correct?

23 MR. FLANDERS: The American Centrifuge  
24 Plant isn't involved in the megatons to megawatts. When I  
25 said earlier --

1 MS. WAHLEY: Okay.

2 MR. FLANDERS: -- the Russian, the high  
3 enriched uranium, you are correct, the proper term is the  
4 megatons to megawatts. That agreement, my understanding,  
5 expires in 2013. So that's one of the reasons they feel  
6 we need to bring additional capacity online, they being  
7 the Department of Energy, for the more -- to get more of  
8 the domestic sources. The -- but the Russian material of  
9 the megatons to megawatts wouldn't, or isn't involved in  
10 the American Centrifuge Plant. The American Centrifuge  
11 Plant only uses natural-feed uranium, or natural assay  
12 uranium. Does that help?

13 FACILITATOR CAMERON: Okay, and is there  
14 any project that is involved in the mega to mega?

15 MR. FLANDERS: Yawar can answer that, I  
16 think that --

17 FACILITATOR CAMERON: I say, it isn't  
18 involved here, but for complete information, maybe we can  
19 give you that. Yawar?

20 MR. FARAZ: The material that's coming  
21 from Russia is essentially what the clients, the USEC's  
22 clients are requesting, so it comes down, downblended to  
23 whatever the customer needs.

24 So it's not a feed to the gaseous  
25 diffusion process nor is it going to be a feed to the gas



1 centrifuge process. It essentially taking -- it's brought  
2 in from Russia then provided to the plants directly.

3 FACILITATOR CAMERON: All right, thank you  
4 very much. Thank you all. Okay, one quick question,  
5 Geoffrey, before we go to comment?

6 MR. SEA: Yes, Geoffrey Sea. The draft  
7 EIS says in the beginning that one of the main  
8 justifications for the facility is that if ACP goes  
9 into operation, Paducah will be shut down. What you just  
10 said was that Paducah would be needed to stay in operation  
11 to meet the total domestic demand for enriched uranium, so  
12 which is it? If this facility is not going to result in  
13 the shut down of the Paducah plant, then everything you  
14 say in here about how the cleaner technology and more  
15 efficient technology will be acquired by shutting down  
16 Paducah is irrelevant.

17 MR. FLANDERS: Right, if I gave the  
18 impression that USEC or the Paducah facility would have to  
19 stay online, that's not necessarily the case, but again,  
20 that's a USEC business decision. Even if they do license  
21 this, they're not required to shut down Paducah, so it's  
22 an issue of what the demand is for the SWU and how they  
23 produce that, how to decide on the business model to  
24 produce that SWU. What they have told us as they plan on  
25 shutting it down because the centrifuge process is more

1 efficient. Does that --

2 FACILITATOR CAMERON: Okay, thanks for  
3 asking that clarification, Geoffrey, and thank you, Matt  
4 and Scott, and we're going to go to the portion of the  
5 meeting where we hear from all of you, and our first  
6 commentor is MarJean Kennedy from the Governor's regional  
7 office. MarJean?

8 MS. KENNEDY: Thank you. We are confident  
9 in the NRC's evaluation that potentially there could only  
10 be very minimal impact to the public and occupational  
11 safety and health, especially given USEC's history of safe  
12 operation. Since USEC has operated the gaseous diffusion  
13 plant, it has -- excuse me -- it has a proven safety  
14 record. The plant is consistently below the national  
15 average in the number of OSHA-recordable illnesses and  
16 injuries.

17 Just like the gaseous diffusion plant, the  
18 centrifuge's commercial plant will also be a highly  
19 regulated facility, requiring strong safety programs in  
20 order to maintain strict compliance with all state and  
21 federal regulations for the safety and health of the  
22 employees, as well as the public.

23 As part of its review, the draft  
24 environmental impact statement, the NRC evaluated both the  
25 direct and indirect economic impacts from the plant, and

1 as stated earlier by Mr. Blevins, they determined that  
2 there be small to moderate impacts. Most are positive  
3 impacts, such as jobs and tax revenues. This conclusion  
4 seems reasonable, based on our understanding of USEC's  
5 project.

6 Site preparation and construction is  
7 estimated to cost 1.4 billion between 2006 and 2010. USEC  
8 tells us they're going to spend approximately 1.7 billion  
9 on the plant from 2002 until its completion. That's a lot  
10 of money for the local economies here in Piketon,  
11 Chillicothe, and all of southern Ohio. It means up to 500  
12 jobs, both direct for the reservation and indirect for  
13 contractors in the region.

14 In addition to the multiplier effect, that  
15 money -- of that money on the local economy, these workers  
16 will be supporting our local businesses and that's good  
17 for everyone.

18 The cost estimates to construct and  
19 operate the plant were based on a facility that would  
20 generate 3.5 million SWU per year, as you just heard, but  
21 the draft environmental impact statement and USEC's  
22 environmental report anticipated growing the plant's  
23 output to 7 million SWU per year and that means more  
24 machines, more jobs, and more money into your local  
25 economy. The draft EIS does not anticipate any additional

1 problems from increasing the plant's output to 7 million  
2 SWU.

3 During the site preparation,  
4 refurbishment, and construction, it is anticipated that  
5 there will be 3,362 new full-time jobs created in the  
6 local economy. There is also an anticipated increase of  
7 \$2.3 million in annual state income tax revenues and an  
8 increase of \$3.7 million in annual state tax receipts.  
9 During American Centrifuge operation, 1,500 jobs are  
10 anticipated to be created as a ripple effect into the  
11 community. The state will potentially benefit from \$1.8  
12 million to \$2.4 million in additional annual income in  
13 sales tax receipts, respectively.

14 At the end of the life of the centrifuge  
15 project -- centrifuge plant, excuse me, there will then be  
16 decommissioning phase. When the plant is closed, that  
17 time frame could be much longer as the experience from the  
18 gaseous diffusion plant shows. The gaseous diffusion  
19 plant began operation in 1956 and wasn't shut down until  
20 2001 and it still has not been decommissioned, but when it  
21 is, there will be jobs for that work as well. The NRC  
22 estimates that \$435 million will be spent over six years  
23 to decommission the American Centrifuge plant.

24 In closing, we appreciate the fact that  
25 the NRC has been taking a very hard, but a very fair look

1 at this project for the State of Ohio. Thank you.

2 FACILITATOR CAMERON: Okay, thank you  
3 Margie, and you're going to hear a lot of -- all of you  
4 are going to hear things tonight from other people that  
5 you may not agree with, you may really disagree with, and  
6 I would just ask all of you to just extend the courtesy to  
7 one another and respect for their opinions as we go along  
8 tonight.

9 Second speaker, Judy Newman from  
10 Congressman Ted Strickland. Judy Newman?

11 MS. NEWMAN: Thank you very much. I'm  
12 very pleased to be here to represent Congressman  
13 Strickland tonight, and I have a brief statement from him.

14 Congressman Strickland is very  
15 enthusiastic about the deployment of advanced enrichment  
16 technology in southern Ohio. He recognizes the importance  
17 of this program to the local area and to it's economy.  
18 Ted would also like me to express his appreciation for the  
19 dedicated workforce and their commitment to protect the  
20 health and safety of their colleagues and the community  
21 surrounding this facility, and Ted strongly urges USEC to  
22 employ these his local workers and capitalize on their  
23 expertise. Thank you so much.

24 FACILITATOR CAMERON: Okay, thank you,  
25 Judy, and thank the Congressman, too, for those remarks.

1 Lorry Swain?

2 MS. SWAIN: I'd like to give my five  
3 minutes to anyone else.

4 FACILITATOR CAMERON: Well, we don't -- if  
5 you want to take the time to comment, please come up and  
6 do it, but we usually don't give five minutes to anybody  
7 else, so maybe you want to come up and just tell us what's  
8 on your mind, all right? Thank you.

9 MS. SWAIN: Aside from the two concerns  
10 that I raised earlier, one about USEC's safety record and  
11 their violations at the gaseous diffusion plant, I also  
12 have a concern many of us carry, and that's that we do not  
13 buy into the idea that there is any safe place on earth in  
14 which to permanently and safely store the radioactive  
15 waste that would be generated by this plant. Thank you.

16 FACILITATOR CAMERON: Okay, thank you  
17 Lorry, and for your questions and comments from before.  
18 Deborah, do you want to come up and talk to us? I think  
19 we heard some of your concerns before. You want to talk  
20 from there? All right. This is Deborah Baker.

21 MS. BAKER: One of the comments that a  
22 proponent of this plant made was that the USEC plant that  
23 is there now has had an OSHA safety record better than the  
24 national average, but I would like to point out also that  
25 there was a whistleblower there who was fired, so there

1 are things that are going on that aren't being talked  
2 about.

3 Also, I did get the draft environmental  
4 impact statement. I didn't read it all. It's very large,  
5 and there was not a lot of time to look at it for those of  
6 us don't get paid 40 hours a week to do this kind of work  
7 -- to read, so I didn't read all of that so excuse that,  
8 but there are things that concern me.

9 For example, centrifuge technology -- the  
10 things that concern me are not the details like how many  
11 -- whether it's one millirem or 17 millirem, you now, 5  
12 feet away or 5 miles away, but the facts like Lorry was  
13 talking about.

14 One is that the Centrifuge technology as  
15 we all know is -- as you were telling me, it's easier to  
16 make weapons-grade material from the centrifuge technology  
17 than from the gaseous diffusion. I'm not promoting  
18 gaseous diffusion, I'm just saying this is dangerous -- I  
19 think this is dangerous. I mean, this is a dangerous way  
20 to go.

21 The United States has not been honoring  
22 the Nuclear Proliferation Treaty, it's not decommissioning  
23 its weapons. In fact, there was a question about this and  
24 that question was not answered. And, in addition, the  
25 Bush administration wants to develop more nuclear weapons,

1 and they also said that they would be willing to make a  
2 first nuclear strike. I think this is very disturbing and  
3 I think this has a lot to do with centrifuge technology,  
4 and I don't think it's something that we should have.

5 I don't think any nuclear technology is  
6 something we should use, but this particular one is very  
7 dangerous for all the peoples of the world, not just  
8 people here in Piketon. That's one of my worries about  
9 this plant.

10 Another is that the fiscal responsibility.  
11 Ohio, as well as this county here, have paid a lot of  
12 money for this plant to locate here. Ohio has paid, like,  
13 \$100 million, an awful lot of money, for 1,500 jobs?  
14 That's not a very good return. I understand that the  
15 local county also has given a complete tax abatement, that  
16 USEC is not paying local taxes. And so, this is not  
17 something that's good for the community, and according to  
18 the tax base.

19 In other ways, the tax payer subsidizes  
20 the nuclear industry. For example, the Price Anderson  
21 Act, Vina was asking, what -- who do you sue? The nuclear  
22 industry is not taking fiscal responsibility for accidents  
23 that will happen. They have very limited responsibility  
24 and I think even the newer acts, newer Patriot Acts have  
25 made the responsibility even less. The taxpayers are



1 responsible. We are the taxpayers and I, for one, don't  
2 want to subsidize the nuclear industry. Accidents will  
3 happen, accidents have happened, and I don't think we  
4 should be paying for it.

5 Other concerns are having contractors and  
6 subcontractors in smaller and smaller companies  
7 responsible for this work. Who do you sue? They're going  
8 to go out of business by the time you get your cancer.  
9 Where is your health benefits going to be paid by? Who's  
10 been to be paying your health benefits? Who's going to be  
11 responsible for -- that's just going to disappear by the  
12 way this is being done, you know, I mean, do we talk to  
13 DOE, to talk to USEC, do we talk to -- I mean, it's too  
14 confusing for response -- as far as responsibility is  
15 going.

16 And of course, as was mentioned before,  
17 also, there is no way too store radioactive waste until  
18 the time that it's no longer a danger. There is no way.  
19 It doesn't matter how thick this book is there is no way  
20 to do that. It's not safe. Yucca Mountain has not been  
21 approved. The people in Nevada do not want that waste  
22 going there. We wouldn't want that waste going here. If  
23 we can't send it out from here, it will probably say stay  
24 here. We don't want it here, it's dangerous.

25 I don't think I can say more than that.

1 FACILITATOR CAMERON: Okay, thank you  
2 Deborah. Jean -- and, is it Puckstein? All right. Jean  
3 Puckstein.

4 MS. PUCKSTEIN: Yes, I'm Jean Puckstein,  
5 and I'm speaking as a member of the public today.

6 For the past 20-some years I have been  
7 reading and critiquing environmental impact statements for  
8 licenses that would continue to endanger the public by the  
9 spread of radioactive materials. I offer my  
10 congratulations to your staff -- I'll say something good  
11 about it -- for writing the best looking DEIS I have ever  
12 seen, also the longest, at of some 450 pages.

13 Mr. Blevins is already repeated some of  
14 this, but I think it's so important, I'm going to go ahead  
15 and repeat it from my written statement. Quoting from the  
16 NRC's DEIS, This proposed action is the issuance of an NRC  
17 license for USEC under the provisions of the Atomic Energy  
18 Act. This license would authorize USEC to possess and use  
19 special nuclear material, source material, and byproduct  
20 material at the proposed American Centrifuge Plant in  
21 accordance with the NRC regulations, and the scope of  
22 activities to be -- this is a continuation of the quote  
23 -- the scope of activities to be conducted under the  
24 license would include the construction, operation and  
25 decommissioning of the plant.

1                   The glossary included at the end of your  
2       DEIS defines special nuclear material, plutonium,  
3       uranium-233, or uranium enriched in the isotopes, ores  
4       containing .05% uranium or thorium, regulated under the  
5       Atomic Energy Act. In general, this includes all  
6       materials containing radioactive isotopes concentrations  
7       greater than the natural and the byproduct trailings from  
8       the formation of this concentrated material, and byproduct  
9       materials is defined as the tailings or waste products  
10      produced by the extraction or concentration of uranium or  
11      thorium from any ore processed primarily its source  
12      material content. See also source material, which I just  
13      read.

14                  These very broad definitions seem to  
15      include any and all radioactive materials that USEC will  
16      be authorized to possess and use if NRC grants this  
17      license. Now, we've heard some discussion about the  
18      weapons-grade materials, and the -- I think it would be  
19      helpful in your final impact statement to include a list  
20      of the nuclear material that will not be used at the site.

21                  Okay, then, quoting again from the DEIS  
22      under the heading, Staff preliminary recommendations  
23      regarding the proposed action, After weighing the impacts  
24      of the proposed action and comparing alternatives, the NRC  
25      staff, in accordance with the law blank sets forth its

1 recommendations regarding the proposed action. The NRC  
2 staff recommends that unless safety issues mandate  
3 otherwise, the proposed license to be issued to USEC in  
4 this regard, the NRC staff has concluded that  
5 environmental impacts are generally small, although they  
6 could be as high as moderate in the areas of air-quality,  
7 socioeconomics, and transportation.

8 Small is defined in the introduction as  
9 the environmental effects are not detectable or are so  
10 minor that they would neither destabilize nor noticeably  
11 alter any important attribute of the resource. Moderate  
12 is defined as the environmental effects are sufficiently  
13 -- sufficient to noticeably alter, but not the stable ways  
14 important attribute of the resource. And, large is defined  
15 as the environmental effects are clearly noticeable and  
16 are sufficient to destabilize important attributes of the  
17 resource.

18 As Mr. Blevins has pointed out, that the  
19 NRC staff did not find any environmental effects that were  
20 considered large, very few, small the moderate, and almost  
21 all of their analysis and conclusions in this 450 page  
22 report would have small effects. Some of the examples of  
23 effects judged to be small, and because of our time  
24 constraint tonight, I'm only going to review one page, and  
25 that's page XXII in the summary introduction, and I'm

1 quoting, I'm giving three examples of how difficult it is  
2 to understand in these broad categories the real impacts  
3 when they're called small, medium, and large. Okay, the  
4 quote is, Construction of the new large cylinder storage  
5 yard, again, in addition to the other plant facilities  
6 that they license, would enable USEC to build in existing  
7 locations on the site, there's a proposed new cylinder  
8 storage yard, would result in small -- but the  
9 environmental impact statement goes on to state it would  
10 result in small impacts of flora and fauna in or around  
11 the tributaries of little Beaver Creek.

12 On the same page, the noise impact is  
13 rated small for a catastrophic failure of a centrifuge  
14 could cause a sudden but brief loud noise due to the high  
15 rotational speed of the centrifuge. However, the  
16 likelihood of a single centrifuge catastrophically failing  
17 is very low.

18 No mention is made of several centrifuges  
19 failing or the large screams of employees who are the  
20 victims of such an accident on the same page under the  
21 heading, Transportation, subheading, Small radiological  
22 impacts from routine transportation and transportation  
23 accidents, again, this is the same page. You know, I'm --  
24 this is my last analysis, but it's to give you an idea of  
25 some of the doubletalk language used in this environmental

1 impact statement. The transportation of materials  
2 containing radio nuclides would result in some increased  
3 cancer risk to both the occupational workers transporting  
4 and handling the material, and two, members of the public  
5 driving along the road or living along the transportation  
6 routes, continuing the quote, the probability of a severe  
7 transportation accident that releases sufficient quantities  
8 of uranium hexafluoride that could pose health breath  
9 risks is low, but the consequences of such an accident,  
10 should it occur, are high -- I suppose that's -- yeah --  
11 based on this analysis, the impacts associated with such  
12 an accident as part of the proposed action are considered  
13 moderate.

14 No mention is made of accidents with  
15 enriched, radioactive material leaving the plant to become  
16 fuel for nuclear plants and other critical safety  
17 concerns. I believe that these and many other safety  
18 issues not adequately addressed in your DEIS mandate that  
19 NRC deny issuing the license to USEC. I believe that  
20 these and -- because of the time constraints again, this  
21 evening, I will continue my remarks in writing and submit  
22 them before your October 24 deadline and I'll give you  
23 printed copy of my comments tonight.

24 FACILITATOR CAMERON: Okay, thank you very  
25 much, Jean, and obviously you did a careful reading of the

1 document. Thank you for that, too. All right, thank you,  
2 and we'll attach these to the transcript. We can do that,  
3 right, Kris?

4 COURT REPORTER: Yes.

5 FACILITATOR CAMERON: All right, thank  
6 you. Mr. Beekman? Blaine Beekman?

7 MR. BEEKMAN: I, too, have spent quite a  
8 time in that document, and I guess that my view differs a  
9 little bit because sometimes it does take 450 pages to  
10 tell his story if it's complete. I don't have a lot to  
11 complain about it. In fact, I thought it was pretty  
12 well-done piece at this point, but I'm still waiting to  
13 see the final document.

14 Last year, we brought up 8,000 letters of  
15 support, because it was important to understand that the  
16 community where this plant, if it is licensed and built,  
17 resides. It was impressive. It was certainly, I think,  
18 representative of the basic feeling of most of the  
19 residents, but that's basically all that those folks did.  
20 We didn't have 8,000 people show up for the meeting and --  
21 but still, I think it was clear and the picture got  
22 across, both to USEC, and people who needed to see it  
23 there was a lot of support for it.

24 This summer, we've had something entirely  
25 different. We've had a group of things put forward that

1 appeared to be very difficult to understand, almost  
2 unfathomable. Now basically, most of the folks that live  
3 in this community are not nuclear scientists, we're not  
4 architects, we're not archaeologists. A lot of things we  
5 aren't, and so when people say, or you see lists of things  
6 which are absolutely -- something that we've never  
7 experienced, it was really somewhat confusing except, the  
8 strange thing that developed, because when we began to ask  
9 around in this community about certain issues we found out  
10 people had attitudes about them, then found out that those  
11 attitudes went back to experiences and facts that they had  
12 had, and when you begin to put the community together and  
13 let them speak out about what they knew about things that  
14 had happened in this community over the past 50 years, we  
15 found out that they had really a lot of information to  
16 give. It's just that no one had asked them and what it  
17 really -- and there are people in the community, I know  
18 --or, in this room tonight, I see -- looking back and see  
19 Bob Childers, I see Teddy West, I see Steve Eckhard, guys  
20 who are able to bring information into events and  
21 situations that were trying to be explained that nobody  
22 else seemed to have an explanation for.

23 What I really think that that shows, on  
24 top of the fact that they had stuff to give, was the  
25 amount of effort that went into it by certainly -- in one



1 incidence, a couple of dozen individuals who -- some still  
2 live in the community, some have moved away, but we wanted  
3 to be able to locate them and people went out of their way  
4 to give us addresses, phone numbers and whatever so that  
5 we could try to answer these questions which, when you put  
6 everyone who have information about them, they weren't  
7 really all that tough to understand, and they certainly  
8 weren't quite as exciting as the theories put forward  
9 behind them, but I think the important thing here is that  
10 these people in the community, some of whom signed the  
11 8,000 letters last year, they were willing to put out the  
12 time and effort to try to show what some of the facts were  
13 because again, it's a different level of support in this  
14 community, and it's what we've learned to live with, with  
15 the gaseous diffusion plan for 50 years. Now, we look at  
16 a technology that by any standard that we can see, appears  
17 to be safer and whatever, but again, we brought 8,000  
18 letters last year. This time it was a smaller number of  
19 people, but a much more intense effort, but the result of  
20 each of them is the same. It's a support for this project  
21 and an attempt to make sure that the NRC regulators who  
22 are studying it get as correct the information as  
23 possible. Thank you.

24 FACILITATOR CAMERON: Okay, thank you, Mr.  
25 Beekman. Then I'm assuming that some of that information,

1 or all of it is -- has been presented to the NRC or will  
2 be presented?

3 MR. BEEKMAN: Yeah.

4 FACILITATOR CAMERON: Okay, thank you.  
5 Next we have, I guess I would call it a collegial effort.  
6 We have four women from the same organization, which is  
7 PRESS, which they will tell us what PRESS stands for, but  
8 we're going to hear four speakers, and we're going to  
9 start with Pat Marida, and then we'll go to Kathy Arnold,  
10 then Nancy Walker, and then Vina Colley, right, Pat? And,  
11 you're going to lead off for us? Okay.

12 MS. MARIDA: Hi, my name is Pat Marida. I  
13 do have some -- a written copy of my statement for the  
14 NRC. I am, tonight, reading comments from a PRESS -- the  
15 Portsmouth/Piketon Residents for Environmental Safety and  
16 Security.

17 According to this Draft Environmental  
18 Impact Statement, the ACP would cost about \$3 billion to  
19 construct with centrifuges. The Enterprise Zone program  
20 of the State of Ohio would expect about 15,000 new jobs to  
21 be created for that scale of capital investment. In other  
22 words, put an average non-nuclear industry on this site  
23 and you would get 15,000 jobs. On page 3-50 of the DEIS,  
24 we find that USEC currently employs 1,223 workers at the  
25 site. On page 4-34 of the DEIS, we learn that in the

1 operation phase, the ACP is expected to create 600 direct,  
2 full-time jobs. This is clarified on page 494 of USEC's  
3 ACP application, where it states that the operation of the  
4 ACP is projected to employ 600 personnel. In other words,  
5 the ACP would result in a net loss of 623 jobs. We  
6 estimate that the indirect jobs lost based on 900 indirect  
7 ACP jobs created would be about 935, for a total net loss  
8 of 1,358 jobs caused by the ACP. That's not counting the  
9 750 jobs that would be lost at Paducah.

10 However, if we assume that those 6,000 --  
11 excuse me, 600 created jobs result from the \$3 billion  
12 investment, the ACP underperforms in job creation by a  
13 factor of 25 by Enterprise Zone standards. So, if \$25 --  
14 25 times less money, less jobs for the money. Differently  
15 put, the Enterprise Zone would create the same number of  
16 new jobs for an investment of just \$120 million in  
17 capitol.

18 In the building phase, the assessment of  
19 impacts to tax revenue is treated differently from the  
20 impacts to population characteristics. For tax impacts,  
21 the DEIS states that building will create 3,362 jobs, but  
22 for population impacts, the DEIS states that 2,998 of  
23 those jobs are on a continuum of existing jobs generated  
24 or supported by current USEC activities, thus, the DEIS  
25 tells us, 374 new jobs would be created during

1 construction.

2 To summarize the job situation, the DEIS  
3 contains enough information for us to predict that the ACP  
4 would create 374 new jobs over the short-term building  
5 period, followed by a net loss of 1,358 jobs in the  
6 operations period.

7 On safety, if we add up all the deaths and  
8 injuries presented in the DEIS due to routine  
9 transportation and due to transport accidents and  
10 non-occupational accidents, we get a total of six -- of  
11 just six deaths and 1,117 injuries; however, the DEIS  
12 neglects to express the injury rates in several  
13 significant categories related to routine and accidental  
14 radiological exposures in both the occupational and  
15 transport categories of both the operations stage and in  
16 the decommissioning stage.

17 Further, the DEIS treatment of  
18 occupational injury rates depends on statistics from the  
19 Bureau of Labor Statistics, the BLS, but overlooks an  
20 important statement in the BLS study which says some  
21 conditions, for example, long-term latent illnesses caused  
22 by exposure to carcinogens, are often difficult to  
23 regulate -- excuse me, difficult to relate to the  
24 workplace and are not adequately recognized and reported.  
25 These long-term latent illnesses are believed to be

1 understated in the surveys illness measures. That is end  
2 of quote from the Bureau of Labor Statistics.

3 On page 462, the DEIS describes that  
4 workers may be exposed to puff releases of uranium  
5 hexafluoride gas which is exactly the type of puff -- of  
6 exposure that would result in a long-term latent illness.

7 To be fair, the DEIS does show in table  
8 3-29 that mortality rates in Pike County, due to renal  
9 failure, are between two and four times that of the rates  
10 in Ross County and Scioto County; however, although renal  
11 failure is associated with uranium poisoning, the DEIS  
12 suggests that this death rate may instead be associated  
13 with diabetes and hypertension. The NRC staff has made no  
14 attempt to determine whether uranium poisoning has, in  
15 fact, caused those deaths.

16 Blindly following USEC's analysis, the  
17 DEIS compares potential ACP occupational injury rates to  
18 those from the broad and now obsolete Standard Industrial  
19 Classification, which is called Industrial and organic  
20 chemicals, not elsewhere classified.

21 Not only is this inappropriate, but the  
22 ACP occupational injury rates are projected using Piketon  
23 operations in 2002 and 2003. Uranium enrichment  
24 operations at the DOE reservation in Piketon, Ohio, ceased  
25 in May, 2001. In fact, as measured by the NRC's

1 enforcement action notices, USEC has, by far, the worst  
2 safety record of all NRC materials licensees. Of 516  
3 materials licensees that have been issued with NRC  
4 enforcement notices, USEC has the most, with 16, followed  
5 by Mallinckrodt Incorporated, with nine, and Westinghouse  
6 Electric, with six. Most violations have just one or two  
7 -- most violators have just one or two notices.

8 On security, this type of plant has a poor  
9 history. The Uranco Centrifuge Plant is responsible for  
10 allowing the Con Network access to the centrifuge  
11 technology behind the enrichment programs of Pakistan,  
12 Iran, Iraq, and Libya. So, that is how they got access.  
13 Some of USEC's violation notices have involved lax control  
14 over classified computers.

15 So, that's the end of my statement. I  
16 would like to point out that over on the table, I have put  
17 out some information from the Nuclear Information and  
18 Resource Services. It's called "The Myth of the  
19 Millirem," and in ten sentence -- a ten-word description  
20 of what that says, it says that the rem is not based on  
21 any standard unit that can be verified. So, thank you  
22 very much.

23 FACILITATOR CAMERON: You're welcome, and  
24 the table you are referring to is --

25 MS. MARIDA: Is -- it's right over here.

1 FACILITATOR CAMERON: Right over there  
2 somewhere.

3 MS. MARIDA: Right over -- right.

4 FACILITATOR CAMERON: Okay.

5 MS. MARIDA: The round table on my left.

6 FACILITATOR CAMERON: The round table,  
7 okay.

8 MS. MARIDA: The Myth of the Millirem, and  
9 so I think there are -- we -- our statement is long so  
10 we've got enough people to finish it.

11 FACILITATOR CAMERON: Okay, thank you,  
12 Pat. And, Kathy Arnold?

13 PARTICIPANT: (Inaudible comment from an  
14 unmarked location)

15 FACILITATOR CAMERON: Yeah, I think this  
16 is all one statement that we'll attach.

17 MS. ARNOLD: Although we have yet to  
18 complete our analysis of the 470-page Draft Environmental  
19 Impact Statement itself, we have already identified  
20 contradictions, bad advice, poor treatment of  
21 alternatives, incompetent data entry, and incompetent  
22 modeling --

23 FACILITATOR CAMERON: You're going to have  
24 to --

25 MS. ARNOLD: Come closer?

1 FACILITATOR CAMERON: Yeah, because I  
2 think they're -- that's --

3 MS. ARNOLD: Okay. Where am I? We've  
4 already identified contradictions, bad advice, poor  
5 treatment of alternatives, incompetent data entry, and  
6 incompetent modeling based on unverifiable methods.  
7 Moreover, the DEIS has overlooked some obvious problems,  
8 and it overlooks the possibility that USEC may have misled  
9 the State about the costs of the ACP, or that the ACP may  
10 be too expensive for investors to back it.

11 Further, DEIS contains little in the way  
12 of independent investigation and it does little to open  
13 the details of the project to public scrutiny from under  
14 two layers of secrecy: classified information and  
15 proprietary information.

16 In addition to this, we feel that the NRC  
17 staff has neglected it's obligations under 40 CFR 15.03 to  
18 respond, in satisfactory manner, to the scoping comments  
19 submitted by opponents of the ACP for the Draft  
20 Environmental Impact Statement. Most of these flaws seem  
21 to result from the NRC's staff repeating rather  
22 uncritically the assertions in the analysis of the USEC  
23 ACP application documents.

24 We should remember that the ACP  
25 application is such a highly -- such a high-qualified



1 application that although it models the highest possible  
2 flood using the low rate five times that of the historical  
3 flood of 1937, it finds that the highest possible flood  
4 actually reached a lower height than the 1937 flood.

5 The DEIS contradicts itself. For example,  
6 the annual number of feed cylinders is different on page  
7 2-22 than it is on page 4-47. The DEIS also offers bad  
8 advice. For example, on page 2-18, it recommended that  
9 the GCEP documents from the 1980s be destroyed. This  
10 would make it more difficult to determine what  
11 contaminants have historically polluted the groundwater at  
12 the site, thereby, impeding cleanup.

13 The DEIS treats alternatives very poorly.  
14 For example, there is very little discussion of the  
15 potential benefits of simply cleaning the site up once and  
16 for all and using Enterprise Zone incentives to  
17 reindustrialize the site.

18 Another alternative for the industry would  
19 be a scheme in which laser isotope separation units were  
20 located at all the major power stations. Laser isotope  
21 separation costs less in capitol startup and electricity  
22 for operations, and is capable of processing smaller  
23 amounts of fuel. Moreover, by processing fuel at the  
24 reactor site, the risk to the public due to transportation  
25 of low-enriched uranium would be effectively eliminated.

1 In cost and benefit, it's a superior scheme.

2 The DEIS makes trivial false statements.  
3 For example, on page nine -- page 369, the DEIS states  
4 that the calendar year 2003 Bureau of Labor Statistics  
5 average incidence rate of nonfatal occupational industries  
6 -- injuries and illnesses are not currently published. In  
7 fact, they were published in December, 19 -- 2004, and  
8 reissued in June, 2005. So, this statement is false.  
9 Clearly, there is -- clearly, this error arose because the  
10 US -- because USEC application texts were cut and pasted  
11 into DEIS.

12 The DEIS purports to assess unknowable  
13 risk. For example, a footnote on page 4-53 states that no  
14 2.5 ton cylinder is currently certified to ship uranium  
15 enrichment to higher than 5 weight percent of uranium-235.  
16 Yes, the DEIS goes on to assess the risks associated with  
17 the transport of 10 percent enriched uranium in a cylinder  
18 that doesn't exist.

19 Incidentally, the USEC has yet to explain  
20 why it requires the license of 10 percent enrichment.  
21 It's competitor in New Mexico has only asked for a five  
22 percent license and the power industry doesn't require  
23 fuel enriched above five percent.

24 FACILITATOR CAMERON: Oops, thank you,  
25 Kathy. And, Nancy Walker?

1 MS. WALKER: To continue from the PRESS,  
2 the Piketon/Portsmouth Residents for Environmental Safety  
3 and Security statement, the DEIS has incompetent data  
4 entry with another point that was raised. For example,  
5 table 4-15, estimated latent cancer fatalities from the  
6 transportation of radioactive materials for one year of  
7 operation is seriously messed up. None of the totals is  
8 the sum of it's column or row. Moreover, by comparison to  
9 table D-12 we can see that the risk to the public, whether  
10 following a cylinder on the road, living by a road where  
11 cylinders are transported, or pulling into a rest stop  
12 where a cylinder truck is, the risks have obviously been  
13 grossly understated by a factor of 10,000.

14 The DEIS shows incompetent modeling. For  
15 example, in tables D-12 and D-14, the trip from Piketon to  
16 Clive, Utah, indicates that the trip includes rest stops  
17 and inspection stops. The modeling is based on the  
18 WebTRAGIS system, but the WebTRAGIS manual only mentions  
19 rest stops and inspection stops in association with road  
20 transport, not the rail transport, as indicated. So, the  
21 Piketon-Clive trip is clearly modeled for road transport,  
22 yet on page D-5, it is clearly stated that this is a trip  
23 -- is a rail trip.

24 Furthermore, we tried to register with the  
25 ORNL WebTRAGIS system on September 23, but we have

1 received no reply. We suppose that the system admits only  
2 classified access and that the system is, in any case, not  
3 available for public scrutiny. The risk analysis is  
4 therefore unfavor -- unverifiable by the public.

5 The DEIS overlooks obvious problems. For  
6 examples, on page 4-76, the DEIS informs us that the DOE  
7 conversion utility is designated to operate until 2024 and  
8 to handle a capacity of 243,000 metric tons of depleted  
9 uranium hexafluoride, but that the ACP is designed to  
10 operate until 2040 and to generate 571,000 metric tons,  
11 thus the DOE conversion facility is designed to be  
12 decommissioned 16 years too early and to have a capacity  
13 that is less than 1/3 of the ACP waste.

14 The DEIS overlooks a possibility that the  
15 USC may -- that USEC may have misled the State of Ohio in  
16 order to win various incentives. For example, on page 7-1  
17 of USEC's ACP Environmental Report, we find that on August  
18 15, quote, 203, USEC issued requests for proposals to the  
19 Commonwealth of Kentucky and State of Ohio to cite the ACP  
20 at the respective gaseous diffusion plant. Both States  
21 were offered an opportunity to provide financial or other  
22 incentives to reduce the cost of the ACP. By all  
23 accounts, the cost of the ACP as understood by the State  
24 of Ohio was 1.5 billion; however, page 7-2 of the DEIS  
25 gives the cost of building the ACP and manufacturing

1 centrifuges at 2.872 billion.

2 The DEIS doesn't consider that the cost of  
3 the ACP is unlikely to be met by private investors. For  
4 example, in addition to the costs mentioned above, this  
5 position would cost 2.758 billion based on 571,000 metric  
6 tons of tails, 7 MSW plant, and -- at \$4.83 per kilogram  
7 disposition cost, this compares with a license  
8 application's estimate of \$0.72 billion for tails  
9 disposition, license application, page 10-16.

10 Further, decommissioning would cost \$0.435  
11 billion, according to DEIS page 7-2. Know also that USEC  
12 has estimated the decommissioning and decontamination at  
13 \$0.130 billion, license application 10-14.

14 So, USEC appears to have uniformly  
15 underestimated costs by a factor of between three and  
16 four, so the total cost, without the withheld information  
17 about running cost, is about \$6.65 billion. By  
18 comparison, when USEC went public, it raised just \$1.5  
19 billion in its initial public offering. This was \$1.0  
20 billion short of the \$2.5 billion required for its AVLIS  
21 program. The AVLIS program was cancelled.

22 FACILITATOR CAMERON: Are we ready for  
23 Vina? All right, thank you very much, Nancy. This is  
24 Vina Colley.

25 MS. COLLEY: Hi, I'm Vina Colley. I'm

1 President of PRESS, Portsmouth/Piketon Residents for  
2 Environmental Safety and Security. I am co-chair of the  
3 National Nuclear Workers for Justice.

4 In the DEIS, presents little evidence that  
5 it contains the results of an independent investigation.  
6 For example, PRESS has released the results of analysis of  
7 radioactivity in Big Run Creek, which casts significant  
8 doubt that DOE, USEC, and other EPA data from offsite  
9 sample locations, may be flawed.

10 The DEIS used data from these sources, a  
11 comprehensive independent survey is warranted. PRESS has  
12 had two different independent experts who came in here.  
13 The first expert that came in, he read DOE documents. He  
14 didn't have to do any testing, he didn't have to do  
15 anything, he just read DOE documents which proved that  
16 there is offsite contamination in the creeks going to  
17 Little Beaver, Big Run, Big Beaver, into the Scioto river,  
18 into the Ohio river.

19 We want an independent investigation. We  
20 don't want to believe the word of USEC, DOE, or -- who was  
21 the other one, I can't -- I forgot my glasses, guys -- the  
22 USEC and the contractors of this facility, the NRC needs  
23 to do an independent investigation and I'm still not sure  
24 who is over the special nuclear material at this site.  
25 I'm still not sure who's really regulating the

1 trans-uranics that's going into the creeks. I don't  
2 remember seeing it in your book who's going to regulate  
3 it.

4 The DEIS was overlooked some obvious  
5 problems and it overlooks the possibility that USEC maybe  
6 misled the State about -- I'm sorry, everyone, I forgot my  
7 glasses and I can't hardly see this paper -- about the  
8 cost of the ACP or that the ACP may be expensive for  
9 investors to back it. Further, the DEIS contains little  
10 in the way of independent investigation and it does little  
11 to open the details of the project to the public scrutiny  
12 from under two layers of secrecy, classified information,  
13 and prosperity information.

14 The difficulty seems to result mainly from  
15 the NRC following the assertion and the analysis of the  
16 USEC ACP application to closely and uncritically -- I  
17 heard a few statements here tonight and I'm -- as a former  
18 worker, a whistleblower who's been blacklisted, who's lost  
19 all her benefits and everything from this facility, I sit  
20 here and I listen to you tell these people that this is a  
21 safe plant and it is going to continue to be safe. The  
22 whole time I worked here, there was 570-some violations  
23 year after year after year that never was taken care of.  
24 The centrifuge plant, when it started in '85, I remember  
25 that there was alpha daughters in the lunchroom where the

1 workers were at and to this day, I bet none of these  
2 workers have ever been told.

3 This facility produced highly enriched  
4 uranium for weapons-grade material from 1954 to 1992,  
5 which you thought was '64.

6 I'm still wanting to know who's going to  
7 take the liability for all these sick and dying workers  
8 that aren't being taken care of now, and now, you want to  
9 add additional stress to the community and to the workers?  
10 We are becoming a national nuclear sacrifice zone. We are  
11 going to be taking everyone's nuclear waste if you guys  
12 let this happen. If you start this it means that they'll  
13 never know what, exactly, is going on here, in Piketon,  
14 and I'm really concerned about the radium-226 that's  
15 offsite. Not only did my experts back it up but your  
16 experts that you're listening to right now, backed it up  
17 with a letter to me. So, someone's conning us in all of  
18 the analysis that they're taking at this plant.

19 FACILITATOR CAMERON: Okay, thank you,  
20 Vina, and thank all the participants for -- from PRESS,  
21 and if you do have a statement that we can attach to the  
22 record, we'll do that, and just one clarification is that  
23 the Draft Environmental Impact Statement is a draft, not  
24 final yet, including the conclusion, until we evaluate  
25 comments, and then there is the other part, the safety



1 review, in which there's been no finding yet. So, it's  
2 still in -- is a work in progress, here.

3 We're going to go to Mr. Geoffrey Sea, and  
4 then we're going to go to Dr. David Manuta. Geoffrey?

5 MR. SEA: My name is Geoffrey Sea. I'm  
6 the owner of the Barnes home, which is one of the three  
7 historic properties that the DEIS mentions but doesn't  
8 really say much about, and I'll start by saying that it's  
9 a little irritating, the way they describe the Barnes home  
10 as qualifying under criteria A and C. They don't say what  
11 -- where those criteria came from, or they don't say what  
12 they are. I find that to be a rather inscrutable and  
13 mystifying way to describe a historic property and get  
14 into a discussion of the impacts on it. So, let me tell  
15 you a little bit about the Barnes home.

16 Barnes home was originally built in 1804.  
17 It is generally considered to be the finest home of the  
18 19th century in Pike County. The Barnes family was  
19 extremely influential over four generations in the  
20 politics -- political developments and general history of  
21 the county. I won't go into that, a lot of that will be  
22 made available in my written comments.

23 The house is on the border of the ACP site  
24 in the direction of the maximal windborne contamination  
25 from the site, which has a one-mile fence line with the

1 site. The DEIS could -- just dismisses and concludes,  
2 offhandedly, without any analysis, that there are not  
3 aesthetic or visual impacts on my property in particular.  
4 I can't -- I know you can't all see this, this is a  
5 picture of the ACP buildings from my fence line, okay?  
6 You're all welcome to come up and take a look at this  
7 photo afterwards. It will be made available and attached  
8 at the website at which these comments are available, so  
9 you'll all be able to see it there.

10 Now, no one from NRC came to my property  
11 and looked at what the view of ACP is from my property,  
12 yet they conclude that there's no visual or aesthetic  
13 impact, or that it's minimal. The new buildings that NRC  
14 wants to approve -- the staff wants to approve as being  
15 built will be between these existing buildings and this  
16 fence line here, okay?

17 Now, what are criteria A and C? Criteria  
18 A is architectural significance, and we've had  
19 architectural historians come and analyze my house and  
20 conclude that architecturally, it's one of the finest  
21 examples of architecture from that period in the country.  
22 Those statements will be made available to NRC. They  
23 would have been made available already, but I was not made  
24 a consulting party to the review of cultural resources,  
25 even though I, starting in December, 2004, told NRC

1 directly about my interests and was, in fact, admitted as  
2 an intervener -- as having standing to intervene in the  
3 issuing of a license, but they still didn't consult me as  
4 a consulting party in the historical review. That has now  
5 been corrected to very loud complaints from yours truly.  
6 But, because of that, they were -- did not have access.  
7 They didn't -- never asked to come to my property. I'd be  
8 happy to give them a tour any time they'd like. I'd like  
9 to give them a lot of information, but that has all been  
10 held up. That all needs to be corrected.

11 Now, there were only three properties  
12 listed as having -- as being historic properties in the  
13 DEIS. That's rather strange and mysterious. The -- I  
14 have, in documents that I've submitted, legally, to the  
15 Atomic Safety and Licensing Board that's hearing this  
16 matter, have provided NRC with detailed information about  
17 all the historic properties in the affected area, and  
18 there is no mention of many of them, and let me mention  
19 four others that receive no mention in the DEIS:

20 One is the Sargent home, which is just up  
21 the road from the Barnes home, and is at the main plant  
22 gate. I'm not sure -- I know the owners of that home were  
23 here earlier. I'm not sure if they're still here, but  
24 anyway, the Sargent family was the family that gave rise  
25 to the name of the town of Sargents, which is where the

1 plant is located. They were very closely related to the  
2 Barnes family. They intermarried. Three of the Barnes  
3 boys married three of the Sargent girls, so they  
4 effectively became one big family and the Barnes and  
5 Sargent estates, which included some 4,500 acres,  
6 originally, provided, essentially, all the land, or 90  
7 percent of the land on which the atomic reservation is  
8 located, the AEC came and took a few thousand acres from  
9 the Sargent estate and very close to that from the Barnes  
10 estate. The actual place where the ACP buildings, where  
11 the main process buildings will be located, is on the  
12 border between the Barnes -- old Barnes and old Sargent  
13 estates.

14 The third -- second house is -- third  
15 house is the Rittenour home, which is down by the Scioto  
16 river, and the Rittenour family was also related to the  
17 Sargent and Barnes families, was one of the founding  
18 families of the town of Sargents.

19 The important thing about -- one important  
20 thing about the Rittenour home is that it -- on the  
21 Rittenour estate were numerous Indian earthworks that were  
22 written about in 1820 by a guy named Caleb Atwater. Some  
23 of the earthworks that made the Ohio earthworks famous  
24 were on that property. Now, one of those earthworks is a  
25 long, linear earthwork that was, in fact, seized by DOE in

1 1983 by eminent domain and is one of the places where DOE  
2 and then USEC has placed their water field from which they  
3 will draw the water to supply ACP.

4 And that is, in fact, the reason why NRC  
5 went into these detailed analysis and explanation of ACP's  
6 use of water resources, but they didn't tell you the  
7 reason. The reason is that there are earthworks that have  
8 now been located on the water field site, called the GSEP  
9 water field down along the Scioto river. Why is that  
10 missing from your DEIS? You had detailed information  
11 about it. On August 5, we -- I brought three cultural  
12 resource experts, one archeologist, one expert in ancient  
13 architecture, and one expert in Hopewell culture on to  
14 that site after a lot of argument and a lot of fighting,  
15 finally got access due to the good graces of the ASLB,  
16 which intervened to basically compel USEC to allow us to  
17 go on to the site, and we now have an expert statement  
18 from those three experts certifying that there is an  
19 earthwork there, right underneath the wells from which  
20 they will draw water.

21 And, the problem with the analysis you  
22 heard earlier is that NRC, so far, follows only the USEC  
23 model of talking only about the overall water usage of the  
24 plant in an attempt to minimize it, saying that, "well, it  
25 will only be a 10 percent increase in the water usage of

1 the site," but that's irrelevant. What we want to know is  
2 not what is the overall water usage, because there are  
3 many well fields and the plant draws water from many  
4 locations. What we want to know is what's the impact of  
5 water usage at the earthworks site where the earthworks  
6 are located, because that's the impact, and that's on DOE  
7 land, on Federal land, which is supposed to be protected,  
8 and the national historic preservation act mandates that  
9 studies be done when such a cultural resource is found on  
10 Federal land.

11 So, part of the 106 review that the DEIS  
12 completely neglects and overlooks is that you are required  
13 to mandate studies be done of what the hydrological  
14 impacts are on those cultural resources that have been  
15 identified on that federal land that, again, was seized  
16 from the Rittenour estate.

17 Now, the owner of the Rittenour home  
18 supplied me a letter, which I provided to NRC, which was  
19 actually addressed to NRC. There's no mention of that  
20 letter in the DEIS, in which he complains about the whole  
21 process by which DOE seized his -- the land for this water  
22 field in 1983, complains that DOE never complied with the  
23 National Historic Preservation Act when they seized the  
24 land, never made him a consulting party, and he asked to  
25 be made a consulting party now for the licensing process

1 of ACP. As far as I know, there's been no reply to him.  
2 There's no mention of him or his letter in the DEIS.

3 You sent out all these consulting letters,  
4 supposedly, to fulfill your requirements under section 106  
5 of the act, but you never consulted the people who asked  
6 to be consulted, which included me and Charles Beagle, the  
7 owner of the Rittenour home. It's rather unbelievable.

8 Now, your interpretation of section 106 is  
9 rather incredible. It's basically that you consult with  
10 the State Historic Preservation office to ask them who you  
11 should consult. That's not the law, I'm sorry. The law  
12 is, and this comes from my direct discussions with the  
13 State office, is that the agency is responsible for  
14 identifying the consulting parties, meaning that if a  
15 consulting party comes to you and says, "We have  
16 concerns," you must evaluate those concerns directly  
17 because we don't always go first to the State Historic  
18 Preservation office. They don't -- that's not their role.  
19 They rely on the agency to provide them information about  
20 the project, and they know almost nothing about this  
21 project, because they've been told nothing about this  
22 project.

23 And, that applies, as well, to the Native  
24 American groups that you mentioned, and you'll be hearing  
25 more from them in my written comments. There will be a

1 lot, and you'll be getting direct comments from Native  
2 American groups as well. Don't have time to go into that  
3 tonight.

4 FACILITATOR CAMERON: And, Geoffrey, could  
5 you wrap up? And, I know you have some schematics of  
6 things that you want us to attach, but if you could just  
7 --

8 MR. SEA: Yeah, and let me just explain  
9 those, and you're all welcome to --

10 FACILITATOR CAMERON: Okay, thank you.

11 MR. SEA: -- look at them after. There is  
12 a map, which I've submitted to NRC. I'd like to see it  
13 included in the final environmental impact study. It's a  
14 map that I've created that shows all of the historic sites  
15 in relation to the ACP, to give you an idea, because you  
16 really do need a map to see what the impacts are, and what  
17 really has to be in the final impact study, there's a  
18 reference to it, but unless you see it visually, you don't  
19 really get a sense.

20 This is what's called the Barnes Works on  
21 the former Barnes estate. It is a major Hopewell site,  
22 one of the largest Hopewell earthwork complexes in the  
23 State of Ohio, or in existence, period. This is the  
24 drawing from Squier and Davis' 1848 Monuments of the  
25 Ancient -- Ancient Monuments of the Mississippi Valley.



1 It's a very impressive drawing and gives you some idea of  
2 just what we're talking about, not just mentioning that  
3 there's something called the Barnes Works or the Scioto  
4 Township Works, which these are also called.

5 And, I just want to mention one other  
6 thing really quickly, and that is that this community has  
7 been deceived on one particular issue, and that is the  
8 issue of the deconversion plant on site. NRC and it's  
9 DEIS has in fact gone way beyond being a regulatory body  
10 and has actually solved USEC's waste problem for it. That  
11 is, USEC didn't really say in their environmental report  
12 what they intended to do with their depleted uranium  
13 waste, and I'm sure that that prevent -- presented a real  
14 dilemma for NRC because USEC didn't solve this major  
15 problem, and so NRC stepped in, basically, and in their  
16 DEIS, says that the waste will be treated, or will  
17 probably be treated, or can be treated at the deconversion  
18 facility that's now being built on site by DOE.

19 Now, this is hugely problematic, because  
20 DOE, in their reports to this community at their  
21 semiannual environmental assessment meetings has said  
22 repeatedly that that plant can not be used to treat a USEC  
23 waste, there is, in fact, a legal -- both legally and  
24 technically -- legally, to use that facility would  
25 completely violate the letter and spirit of the USEC

1 Privatization Act. The purpose of the Privatization Act  
2 was to separate private facilities from legacy government  
3 facilities. That facility was built to treat the legacy  
4 waste that is of public responsibility and at public  
5 expense, and is not available, legally, to treat USEC's  
6 private waste. Without a new act of congress, and if you  
7 want to call for an act of congress to change that  
8 requirement of the law, you should be direct about it, but  
9 this community was deceived, and technically, that  
10 facility was -- is not capable and was not designed to  
11 treat all of the USEC waste.

12 FACILITATOR CAMERON: Okay, thank you --

13 MR. SEA: Thank you.

14 FACILITATOR CAMERON: -- Geoffrey, very  
15 much, and if you have those -- you don't have to give them  
16 to me now, but we'll make sure we get them on the  
17 transcript, those schematics, okay?

18 MR. SEA: Okay, give me a chance to show  
19 people --

20 FACILITATOR CAMERON: Okay, yeah. Sort it  
21 out. Dr. Manuta? Why don't you start and we'll see if we  
22 can get that --

23 DR. MANUTA: Hi everyone, can you hear me?  
24 I was pleasantly surprised, earlier this month, to get a  
25 surprise UPS delivery containing the EIS, and anyway, in

1 my background as a professional consulting chemist and  
2 engineer, I came across two technical errors that do need  
3 to be marked off in the EIS itself.

4 Okay, the first one is page 6-3. And  
5 again, I guess, this is the reason why you have your draft  
6 is to make sure that things like this don't go out into  
7 the final edition. On page 6-3, beginning, it's -- 6.1.1  
8 Air Emissions Monitoring, in the second paragraph that  
9 begins on line 14, Airborne release. In line 18, you then  
10 have a shopping list of the chemicals. The chemical  
11 formula for uranyl fluoride is not right. Okay, it's  
12 listed as UF2 in the document. It should be UO2F2, okay?  
13 That needs to be taken care of because that's an error  
14 that ought to be corrected.

15 And then, see, on page -- on Appendix B on  
16 page 1, is there anybody here from the Chillicothe paper  
17 because this is something that I tease them about all the  
18 time. We've got a spelling mistake in the letter to Mr.  
19 Epstein. Uranium Hexafluoride, of course the U goes  
20 before the O, not the other way around, okay, and that's  
21 why I constantly catch them on that.

22 So, now, with the editorial stuff out of  
23 the way, I wanted to make a couple of quick hitters here  
24 so we can go home. Thank you. Because, on the nuclear  
25 fuel cycle, the only thing that this hearing really should

1 be about is step four, because we're, again, working with  
2 USEC's information submitted to NRC to develop an  
3 environmental impact for the gaseous centrifuge enrichment  
4 plant. Now, the NRC has regulatory authority in many of  
5 these other areas, but our concern is on number four, and  
6 I think that's important up front, now, because the way  
7 the enrichment process works, as you've heard bits and  
8 pieces, the natural feed is at a level of about .72  
9 percent uranium-235 with the balance being 99.3, or  
10 thereabouts, percent uranium-238. So, the UF6 is really a  
11 blend of two similar compounds, and what the enrichment  
12 process is designed to do is to enrich in a cascade-type  
13 process, in other words, one machine after the next, to  
14 enrich the uranium-235 F6 to a level that the public  
15 utility can use, okay? Bottom line, that's what this is  
16 all about.

17 Okay, now when we make the comparison, the  
18 depleted uranium that we talk about is primarily not only  
19 the U-238 F6, it's now at a level -- not at 99.3 percent,  
20 but probably around 99.6 or 99.7 percent. In other words,  
21 a significant amount of the usable uranium for electricity  
22 generation has already been removed and so now, just to  
23 make the linkage to the conversion process, because the  
24 UF6 is not a stable compound with regard to it's  
25 chemistry. I've dealt with dropped cylinders at the plant

1 of UF6 where the chemical does come out. It can react  
2 with the cylinders, it can react with the moisture in the  
3 air, and so on. The important thing is, in general, when  
4 a UF6 cylinder is -- may be dropped, or where there's a  
5 crack in the cylinder, many of the compounds that are  
6 formed, with the exception of HF, are not volatile. In  
7 other words, they stay right there. So, the issue of  
8 drifting off of the reservation some distance away, HF is  
9 the only one that you have to be concerned about. The  
10 uranyl fluoride is a nonvolatile solid. It's going to  
11 drop out wherever it's formed. Notice, that's why you get  
12 a mist. And then, at some point, that does come out,  
13 literally, like snow. Okay, so we need to be clear about  
14 what the science is.

15 And, so, as far as I'm concerned, with the  
16 two minor issues I brought up, this is a superb document  
17 for meeting the objectives of number four, and that's  
18 really what I think we're here for tonight, because the  
19 tails, or the U238 F6, is not reactive waste. That's not  
20 the stuff that's going out, in some point in the future,  
21 to Yucca Mountain. We're talking about converting that  
22 uranium fluoride compound to a uranium oxide compound,  
23 whether it be UO2, UO3, U3O8, fundamentally, what we want  
24 to do is put it back in the ground, because that's,  
25 ultimately, where it came from. There can't be any more

1 environmentally responsible way of handling it than that.  
2 We talk about cradle-to-grave, make the full circle?  
3 Yucca Mountain's not part of this discussion, and we need  
4 to be very, very clear about that.

5 Also, a couple of quick hitters before we  
6 go, next year, in the -- when they do the census, we will  
7 hit 300 million people as a nation, so we will have added  
8 in, since 2000, probably around 18 million people, okay?  
9 The reason -- I do a lot of driving, and people talk about  
10 the price of gas. Well, the fact is, what we're dealing  
11 with tonight doesn't approach that. We're really more  
12 concerned, not with the transportation issues tonight, but  
13 with the power generation issues, because there's a  
14 difficulty associated, whether you deal with hurricanes,  
15 natural gas, whatever, I like when I come into the office  
16 in the morning and I hit the light switch, and the lights  
17 come on. And, wouldn't it be nice, based on some of the  
18 environmental issues you read all about, that when uranium  
19 is used, and again, downstream, again, in the power  
20 generation part, that you don't have any of the greenhouse  
21 issues, and by, perhaps, ramping up the amount of uranium  
22 we use for power generation, we can free up some of the  
23 carbon-bearing chemicals, the petroleum and such, for  
24 transportation, keep those costs down, and I think that's  
25 pretty important to understand.

1                   And, I think that's probably a good point  
2                   to leave it, just to kind-of fill in what I consider some  
3                   of the pieces, here, about why we're here and about why  
4                   it's important. So, thanks for listening.

5                   FACILITATOR CAMERON: Okay, thank you, Dr.  
6                   Manuta. Thank you. Next, we have two more speakers,  
7                   Professor Andrew Feight. Professor Feight, do you want to  
8                   talk to us?

9                   DR. FEIGHT: My name is Dr. Andrew Feight,  
10                  and, let's see. I moved here, to Portsmouth, back in  
11                  2001. I took a job as an Assistant Professor of History,  
12                  teaching American History, at Shawnee State University,  
13                  and about the time that I arrived here, I read the news  
14                  that the enrichment plant was shutting down, and for many  
15                  people in the community, that was bad news, the loss of  
16                  jobs. But, for me, I look to the future and I was quite  
17                  relieved and happy about that because I was looking  
18                  forward to a nuclear-free future for southern Ohio, for  
19                  Scioto County, Pike County, for where I have chosen to  
20                  live and where I have chosen to put my roots down and  
21                  raise a family. So, I was looking forward to a  
22                  nuclear-free future for myself, for my family, and my  
23                  children.

24                  And, I'm a little disturbed by this  
25                  environmental impact study, and I'm going to approach it,

1 really, from the perspective of a historian. I've read  
2 the parts dealing with historic and cultural resource  
3 impacts, and what I see missing here is really a  
4 consideration of an alternative future, alternative uses  
5 for the site, a vision of a nuclear-free, cleaned up,  
6 decommissioned nuclear site that really dates from the  
7 cold war, that is in our past.

8 And, the more I studied local history and  
9 the more I learned about the place, I've come to  
10 understand that the site of the gaseous diffusion plant,  
11 the atomic reservation, truly is a national, and even  
12 international, historic site.

13 Geoffrey Sea spoke of the Indian mounds  
14 located on the property, but there's also a story that Mr.  
15 Sea is pursuing that is only now being told, although I'm  
16 sure people in the community have known this for a long  
17 time, and that is that the last passenger pigeon known to  
18 exist in nature was shot and killed on this site.

19 The extinction of the passenger pigeon is  
20 an incredible historical tale and right here, in Pike  
21 County, at the site of the Barnes house, and on that  
22 property, is where that last bird was shot, and that makes  
23 this location quite important in the history of the  
24 environment of the United States, the history of Pike  
25 County, the history of southern Ohio, the history of Ohio,



1 the history, really, of our nation. A very important  
2 event did happen there.

3 And so, a vision of a future without a  
4 centrifuge enrichment plant would entail appreciating this  
5 site and developing this site as a historical -- a very  
6 important historical site, one where the history of the  
7 cold war, the history of the environment and the  
8 extinction of species could be meditated upon and studied.  
9 So, not only do you have Native American sites there, you  
10 have the history of the Barnes home, you have the history  
11 of the last passenger pigeon, and the backdrop and the  
12 background, which you can see from the property, the A  
13 plant, which, if it was cleaned up and decommissioned and  
14 new industries, non-nuclear industries brought in, would  
15 be a much better future for my children, for our  
16 grandchildren --

17 The Draft Environmental Impact Statement  
18 says -- study says that there are no large impacts, and  
19 there's certainly -- according to this report, is that  
20 there are no large impacts on historic and cultural  
21 resources. That is not true. This is a large impact,  
22 people just don't appreciate the history. People don't  
23 know the history, they don't know about this, and so they  
24 don't see it for what it is, which is a huge, large  
25 impact. It will continue to desecrate Native American

1       sacred spaces. It will thwart the development of the site  
2       as a historic site for appreciation of the story and the  
3       history of the passenger pigeon, and of the environment in  
4       general, and the problem of species extinction. And, it  
5       will continue the environmental degradation of the area,  
6       and all of this runs up against this vision that I had  
7       when I first came here in 2001 of a nuclear-free future,  
8       of a southern Ohio that is cleaned up, where we put the  
9       cold war behind us, and this site can be a cold war  
10      historic site, but it cannot be that if we continue to  
11      operate and enrich uranium there, and there are sites  
12      around the United States that are becoming historic sites  
13      from the cold war, and this would be an excellent cold war  
14      site.

15                   Two more points. One, about the  
16      centrifuge technology. This technology is the very same  
17      technology is very concerned about Iran possessing. In  
18      fact, there is very high tension between the U.S.  
19      government and Iran right now because the U.S. government  
20      is concerned that they are building a centrifuge  
21      enrichment plant. The Iranian government says they are  
22      doing this just for domestic purposes, and that may be,  
23      but there is concern, and our government has right concern  
24      for this, is that that technology can be used to make  
25      bomb-grade material, and that is why they're concerned,

1 yet, should not we be concerned about this, that while the  
2 license is not for the enrichment of bomb-grade material,  
3 but the technology that they're putting in can be used for  
4 such purposes, and I don't want such a possible future for  
5 southern Ohio. I don't want something to change down the  
6 road and they change the facility to start making  
7 bomb-grade materials, because then, the environmental  
8 impact would be extremely different, and that is a  
9 possibility. It would change the whole impact of the  
10 plant if they did, ultimately, start enriching it for  
11 bomb-grade material.

12 So, let me just close and say, let's make  
13 sure that the nuclear industry is in our past, because I  
14 really hope for a nuclear-free future for myself and for  
15 my children. I heard that this plant could close down in  
16 2040. In 2040, I will be 70 years, and my son will be 35,  
17 my age right now. That's a long time, that's a very long  
18 time, and I would rather us not go down that path, and I  
19 will borrow something you said, which was, let's  
20 containerize it and ship it offsite. Let's containerize  
21 this whole thing and ship it offsite so that we can get on  
22 with a nuclear-free, clean south Ohio. Thank you.

23 FACILITATOR CAMERON: Thank you, Dr.  
24 Feight. And next, we have Alan Weiner. Alan?

25 MR. WEINER: Thank you, everyone, for

1 coming and thank you, for taking our comments, but I saw  
2 one -- what I think looks like a typo, where it mentions  
3 in the -- I'm not sure where, it's near the beginning, but  
4 I'll research and write it, too, that it seems that the  
5 number of cancer deaths will probably be, according to the  
6 document, higher for routine non-accident issues, like  
7 .013 deaths per year, than accidental release, which they  
8 don't say the amount, but that seems to be .008, or half  
9 of the number of cancer deaths.

10 I also am active in Cincinnati area with  
11 recreational trails and river resources. The Mill Creek  
12 is one of the greatest streams there, but we're working to  
13 make that a destination by cleaning it up and putting  
14 greenways along it, and I wonder, with this plant here,  
15 would there be very many recreational opportunities, both  
16 along the Ohio river, which, the Ohio river way is  
17 hopefully going to be a recreation destination.  
18 Hopefully, the Scioto river could be hooked up to that, so  
19 I think there's a lot of potential here, as well, all  
20 along the Ohio, and I'd hope that it could all be kept or  
21 made clean. Thanks.

22 FACILITATOR CAMERON: Thank you very much,  
23 Alan. I'm going ask Jim Clifford to -- we still -- we  
24 have some time for some informal discussion between NRC  
25 staff and our experts too, who are here helping us, and

1 all of you, I'm going to ask Jim Clifford to just close us  
2 out of the meeting.

3 I just would like to thank all of you for  
4 being here and for your comments, and it was obvious that  
5 a lot of people took the time to read the document, and we  
6 had a lot of relevant comments, and thank you for  
7 following the ground rules, too. And, Jim, would you like  
8 to do the honors?

9 MR. CLIFFORD: Thank you, Chip. Once  
10 again, I'd like to thank everyone for coming. Clearly,  
11 there were emotions that were high on both sides of the  
12 issue from what I observed here, tonight, and what I try  
13 to do is reflect on what I've seen and heard. There's  
14 been an awful lot of information provided, and we'll take  
15 a look at those comments, but as far as the atmosphere  
16 here, being as emotional as it is and can be, I greatly  
17 appreciate the amount of respect that everyone has shown  
18 to everyone who provided comments and everybody who had  
19 questions, you showed the ability to respect everyone as  
20 an individual and have their own views.

21 To me, I have been working for this  
22 country and defending this country for 35 years now. The  
23 beauty of this country is that we have the ability to have  
24 our own view and to express those.

25 The purpose of this meeting is to make

1       sure that everybody has the opportunity to express their  
2       views, and to me, that's the most important part of this  
3       meeting tonight, is that people felt free to express their  
4       views and we had some very strong views, and we do  
5       appreciate those. We'll take a look at every single one  
6       of those and we will be addressing those.

7                       So, again, thank you for coming, and you  
8       will see the final Environmental Impact Statement issued  
9       in April. Is that correct? Okay.

10                      And, we will be here for another 10 or 15  
11       minutes for anyone who wants to chat with us. Thank you.

12                      (Whereupon, at 9:36 p.m., the proceedings  
13       in the foregoing matter were adjourned.)

14                      - - - - -

CERTIFICATE

This is to certify that the attached proceedings  
before the United States Nuclear Regulatory Commission  
in the matter of:

Name of Proceeding: American Centrifuge Plant

Draft EIS Public Meeting

Docket Number: n/a

Location: Piketon, OH

were held as herein appears, and that this is the  
original transcript thereof for the file of the United  
States Nuclear Regulatory Commission taken by me and,  
thereafter reduced to typewriting by me or under the  
direction of the court reporting company, and that the  
transcript is a true and accurate record of the  
foregoing proceedings.



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Gary Baldwin  
Official Reporter  
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